

**EXHIBIT 2
EXPERT REPORT OF
GEORGE MORAN, P.E.
DATED 10/29/08**

**DEFENDANT CAMERON'S
MOTION *IN LIMINE*
NUMBER 4**

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
HOUSTON DIVISION

SAFOCO, INC.

Plaintiff,

v.

CAMERON INTERNATIONAL
CORPORATION f/k/a COOPER
CAMERON CORPORATION,


Defendant

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CIVIL ACTION NO. 4:05-cv-00739

JURY TRIAL REQUESTED

EXPERT REPORT OF GEORGE MORAN, P.E.



GEORGE A. MORAN, P.E.

Dated: 10/29/08

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SAFOCO, INC.

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CAMERON INTERNATIONAL
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EXPERT REPORT OF GEORGE MORAN, P.E.

1. Activity on Behalf of Plaintiff

I have been retained as an expert on behalf of the Plaintiff, SAFOCO, Inc. (Safoco) to prepare this report and if necessary to appear and testify in this case with respect to issues involving infringement of Safoco's patented actuator technology. In the course of analyzing the infringement issues, I considered various engineering issues and to determine whether actuators assembled, distributed, or marketed by the Defendant Cameron International Corporation (Cameron) infringed upon the patents in suit.

I have examined the following four patents:

U.S. Patent 6,089,531 granted July 18, 2000 ("531 Patent")

U.S. Patent 6,250,605 granted May 20, 2003 ("605 Patent")

U.S. Patent 6,854,704 granted February 15, 2005 ("704 Patent")

U.S. Patent 7,028,986 granted April 16, 2006 ("986 Patent")

Safoco is asserting Claims 2, 14, 21, 22 and 27 of the '531 Patent, Claim 3 of the '605 Patent, Claims 1, 4 and 7 of the '704 Patent, and Claims 1, 2, 3, 8, 9 and 10 of the '986 Patent. For my infringement analysis, I have been asked to assume all Patents and all Claims are valid and enforceable. This report summarizes my findings, observations, and conclusions as of this date.

2. Professional Qualifications

I am a Registered Professional Engineer by the state of Texas, and I have been a P.E. since 1975. I have worked with flow control products including valve actuators for more than 35 years. I have worked with some of the major actuator manufacturers. For example, I worked for W-K-M Valve Company from 1971 to 1987, and I have worked with other actuator manufacturers from 1987 to the present. At W-K-M, I worked as a design engineer and I ultimately held the position of Division Manager, Research and Development.

For the past 20 years I have worked as an engineering consultant to Houston area industries and have done extensive work with design and engineering of high pressure equipment, seals, mechanisms, and general products for the oil and gas and the nuclear power industries.

A copy of my current resume (Attachment A) detailing my current and past employment and professional affiliations is attached to this report. A listing of cases with which I have provided trial or expert testimony during the past five years is also attached (Attachment B). I am being compensated for my time at the rate of \$125.00 per hour.

As a result of my training, experience, and education, I would be considered one of skill in the art of the Safoco inventions described in the patents in suit.

3. Documents and Information Reviewed

In formulating the opinions and conclusions in this report, in addition to the patents listed previously, I also reviewed a number of documents related to this litigation. A list of the documents and information is attached to this report (Attachment C). Documents include the four patents referenced, Cameron assembly drawings, bills of materials, component part drawings, and revision history documents. I also inspected a Cameron pneumatic diaphragm actuator.

I have been given a copy of the Report and Recommendation of Claim Construction in this case which set forth the definitions and construction for various patent terms. I have used these definitions in my engineering analysis of the issues in this case.

This report summarizes my findings, observations, and conclusions as of this date. I understand discovery is not yet been completed and I may be asked to review additional material. Accordingly, I reserve the right to supplement this report in order to allow evaluation of any additional material including documents, drawings, depositions, expert reports, or any other evidence. As additional information becomes available, I may supplement, revise, or amend my opinions or conclusions, and reserve the right to modify or supplement my report.

4. Actuator Product Application and Operation

Valves are widely used to allow or to shut off the flow of fluids in a pipe or flow conduit. Valves may be manually operated or may be equipped with a valve operator or valve actuator. There are various types of valve actuators and the Safoco design is a "fail safe" type actuator. In the "fail safe" type actuator, pneumatic or hydraulic pressure is used to compress a spring. Whenever there is a problem or safety issue, the pressure is released and the spring force pushes the valve gate into the closed position. This "fail safe" concept has been used for years as a safety device in the oil and gas industry. In some applications, the valve may be designed so the valve gate is opened when actuator pressure is released.

5. Summary of Opinions

Actuator assembly drawings produced by Cameron were reviewed with respect to infringement of one or more of the referenced patents. The Cameron drawings are identified by part number, model, drawing number, and Bates-stamp number.

Infringement of each patent was evaluated with respect to the Claims appropriate to that patent and with regards to the definitions in the Report and Recommendation of Claim Construction. I reviewed each drawing relative to infringement, noted the Patent and the Claim(s) infringed, and the results are in the Table attached to this report.

6. Specific Issues

Rotatable Top Shaft

The referenced patents illustrate and refer to an upper top shaft that protrudes through an aperture in the upper housing of the actuator and that is "rotatable" with respect to that housing and rotatable with respect to the operator member and with respect to the valve stem.

In engineering terminology the term "rotatable" generally indicates that a component is free to rotate about a point or an axis. This is the way the term is used in the Safoco patents and the way it is defined by the court. Rotatable as used in the Safoco patent is defined to mean "capable of being rotated". That a component is "rotatable" means it is mechanically free to rotate, not that it must rotate.

According to the deposition of Davy Pampell, P.E., Cameron has attempted to prevent rotation of the top shaft in the pneumatic diaphragm and certain pneumatic piston actuators (MP-13) by installing three set screws in the diaphragm retainer nut. With the MP-17, Cameron installed pins through the top shaft in order to prevent rotation. Cameron claims these changes were implemented in 2005.

One of the issues I have been asked to consider is whether the use of three ¼" diameter set screws in the diaphragm retainer nut, bearing against the top shaft, will

effectively prevent rotation. In the case of using set-screws to prevent rotation, there are several considerations including the force to be resisted, set-screw preload, number of screws, and type of set-screw. Set screws come in several varieties; dog-point, flat-nose with plastic insert, oval nose, cone point, cup-point, etc. Dog-point or oval point set screws do not dig into the contact member (top shaft) but merely bear against it. In addition the set-screw contacts a curved shaft, not a flat surface.

Another consideration is the specified torque and resulting preload placed on the set-screw at assembly. I have seen no evidence that Cameron has specified any particular assembly torque for this application and my understanding is that the set-screws are installed using ordinary hand tools. Accordingly, I have assumed a set-screw preload against the top shaft that would normally occur through hand-tightening using ordinary hand tools.

In order to determine whether Cameron's design change effectively makes the top shaft non-rotatable, a key consideration is the torque or rotational force to be resisted. In the field, there will often be no torque applied to the top shaft or the actuator housing. On occasion however, torque will be applied to the top shaft, for example when a mechanical override is used to operate the valve. To move the gate of the valve, force must be applied sufficient to overcome the spring force and this is often done with a jack-screw mechanism which can apply significant torque to the top shaft.

During inspection of a Cameron MA actuator it was found, depending upon the torque applied to the set-screws, that the top shaft can be turned by hand without the use of any tool. This indicates that Cameron's design is far from effective and provides minimal resistance to rotation. Inspection shows the stainless steel cup-point set screws used by Cameron simply flattened against the top shaft rather than dug into the shaft.

I conducted the following experiment. I installed the top shaft through the diaphragm retaining nut, installed the set-screws, and applied the maximum torque to the screws permitted by flexure of the Allen wrench. Any additional torque would have resulted in permanent twist or would have caused the wrench to break. At this point the top shaft would not rotate by hand, although I did not attempt to use a strap wrench or other tool. I then simulated an override operation by tapping on the upper end of the top of the shaft thereby moving the top shaft slightly downward. In a manual override operation, force is applied to the top of the top shaft forcing it down against the contact member so the force can be transmitted to the upper end of the valve stem and move the gate. After I tapped on the top shaft and simulated the override, I could easily grasp the top shaft and rotate it by hand.

As a practical matter, it appears the seals around the top shaft do as much to prevent rotation as do the cup-point set-screws installed by Cameron. In summary, the top shaft equipped with set-screws allows shaft rotation under the operating service condition in which rotation is most desired; during an override operation.

By contrast, a pin locking the top shaft and diaphragm retaining nut as used in the MP-17 Cameron actuator actually prevents rotation. With that design the pin must shear for

rotation to occur and this would require much more torque than would be expected during normal operating conditions.

“Rotatable” Spring Retainer:

In the Safoco ‘531 patent, certain claims require an upper spring retainer that is “rotatable” with respect to the bonnet stem and the contact member and a rotatable lower spring retainer that is “rotatable” relative to the bonnet housing and relative to the securing means that secures the operator housing to the bonnet housing. I have reviewed Defendant Cameron’s Consolidated Response in Opposition to Plaintiff Safoco’s Two Motion (Docket Numbers 123 and 124.) for Partial Summary Judgment of Infringement Regarding Claims 2 and 21 of the 531 Patent. Cameron’s position is that the lower spring retainer is not rotatable as required by the ‘531 Patent. I disagree with Cameron on this issue. The spring retainers on the accused products, as with the spring retainer on the Safoco products, are free to rotate if necessary. The spring retainers are not required to rotate for the actuator to function, and mandatory rotation was never the design intention.

As the actuator functions, the spring is compressed initially and then extends during operation. Each spring retainer is free to rotate relative to the other.

Spring retainer rotation in the SAFOCO actuator may occur under three different conditions, and each provides benefit. Two conditions occur in the assembly process and the third during operation of the actuator in service.

On initial assembly of the actuator, the lower spring retainer is placed on the base plate ring with the lower end of the spring resting on the lower retainer. The upper spring retainer is placed on the top of the spring and the downstop started on the threads of the valve stem. As the downstop is threaded onto the valve stem, the upper and lower spring retainers are free to rotate and accommodate any non-axial spring loads.

After full assembly of the actuator on the valve, the bolts holding the base plate ring to the actuator outer housing are loose and the actuator is rotated to align the pressure ports with the supply tubing. During this operation, the spring and spring retainers are free to rotate relative to the housing so the housing can be rotated about the spring and spring retainer.

Finally, in service the actuator spring is compressed and during actuation of the valve, can move upward and shut-in or open the valve gate depending on the valve design. During compression or extension of the actuator spring, the upper and lower spring retainers are free to rotate.

Unconnected:

The term unconnected is defined as not joined or fastened directly or through intervening components. In general, the referenced patents illustrate and require that the “bonnet stem” be “unconnected” to the “operator member” at the top end and “connected” to the gate of the valve at the lower end. The patents also illustrate and require the top shaft to be unconnected from the valve stem and unconnected from the

operator member and the contact member or downstop. I have reviewed Cameron's motions for summary judgment and its consolidated response to Safoco's summary judgment motions. Cameron's position is that the bonnet stem is connected to the operator member through the downstop, claiming the downstop is an intervening part. It is also my understanding that Cameron claims the top shaft and the valve stem are connected with the downstop acting as an intervening part.

Cameron however fails to show where or how these components are joined or fastened together. For example, the downstop is not mechanically fastened or joined to the operator member by bolting, threads, welding, clamps, or any other mechanical means. Similarly, the downstop is not fastened to the top shaft. Cameron apparently focuses on the second part of the Court's definition stating components may be connected indirectly through "intervening parts", but misses the first part of the definition requiring that components must be fastened together in some way. Cameron has not illustrated any means by which the operating member and the top shaft are mechanically joined to the downstop.

The operating member and the bonnet stem/downstop assembly rest against one another but are unconnected. The operator member is free to move upward and it is free to rotate relative to the bonnet stem/downstop assembly. In another case, the top shaft slides inside the diaphragm retaining nut and in service rests against the top of the bonnet stem/downstop assembly. These three component parts are unconnected relative to one another since the top shaft can move axially relative to the diaphragm retaining nut, and can rotate relative to the diaphragm retaining nut and the bonnet stem/downstop assembly. Components or assemblies that simply rest against one another does not make them connected; a mechanical attachment is required.

ATTACHMENT A
- RESUME -
George A. Moran, P.E.

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GmoranPE@aol.com

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Fax: 936-566-4170

EDUCATION and PROFESSIONAL AFFILIATIONS:

University of Houston – Masters of Business Administration, 1988.
University of Houston - Bachelor of Science 1970.
Registered Professional Engineer, Texas #38699.
American Society of Mechanical Engineers - Member.
Society of Manufacturing Engineers - Senior Member.
AWHEM - Design Committee Member from 1984 through 1986.
API-6D Pipeline Valve Committee - Member 1990 to Present.
United States Patents - Eight granted.

EXPERIENCE:

Engineering Consultant 3-87 to Present
Engineering consultant to Houston area industries. Extensive work with design and engineering of surface and subsea valves, valve actuators, high pressure equipment, seals, mechanisms, structures, and general products for the oil & gas, nuclear power, and other industries. Expert witness in cases in litigation from the perspective of engineering and/or marketing.

University Of Houston, Bauer College of Business 1990 to 2005
Adjunct professor with emphasis on marketing strategy.

Flow Control Division (WKM), Joy Manufacturing Company
Division Manager - Research and Development 11-79 to 3-87
Responsible for design and engineering review of new Flow Control Division products. Coordinated the selection and justification of viable R&D projects and member of the patent review committee. Responsible for planning, budgeting, and staffing R&D for new product design, stress analysis, laboratory and field testing. Maintained division expertise in the latest design, analysis, and testing methods including CAE and CAD/CAM and data acquisition. Coordinated engineering work with independent test facilities and with local universities.

Associate Engineer thru Project Engineer 1-71 to 11-79
Mechanical Engineer assigned to and/or responsible for various R&D projects. Duties included design, stress analysis, planning, budgeting, and scheduling. Designed and developed the W-K-M Top Entry ball valve and the 370-D pipeline ball valve product lines using "Family of Parts" computer design methods.

Additional Experience:

B.S. at University Of Houston via night school. Experience prior to graduation as a Draftsman, Laboratory Supervisor, and Mechanical designer with Dresser Industries and Exxon Production Research Company. Qualified as Master Mechanic by Chevrolet Motor Division.

- TYPICAL DOCUMENTATION & PUBLICATIONS -
George A. Moran, P.E.

Factory Design Specifications and Factory Acceptance Testing, documentation for surface tree, Transition and Intermediate Joints, Tension Joint, Crossovers, and Tapered Stress Joint, Thunderhorse Riser II, FMC Corporation.

Ballistics, and Hazard Identification, identification, energy, ballistics calculations, and constraints for potential projectiles for the manifold test program, Thunderhorse Project, FMC Corporation.

API Design Manual For The WKM 14" And Larger 370-D Pipeline Ball Valve, surface valve for applications to API 6D specifications, WKM Division, ACF Industries.

API Design Manual For The WKM 2" Through 6" Top Entry Ball Valve, surface valve for applications to API 6A specifications, WKM Division, ACF Industries.

Quality Assurance manual, API Specification Q1, Schooner Petroleum Services Incorporated, November, 1989.

API Design Manual for Type 'S' and 'T' Lock Mandrels, downhole safety application, Specialty Machine And Supply, Incorporated.

API Design Report For 2" and 2 1/2" Type 'GOTJ' Safety Valves, downhole safety valve, Global Oil Tools International.

Development Of A Miniature High Temperature, High Pressure Steam Throttle Control Valve, low noise high flow application, United States Department Of Defense.

Ball Valve Torque Analysis, ball valve weak link analysis, Toledo Edison Company.

Performance Evaluation Of A WKM Gate Valve At The San Onofre Nuclear Generation Station, nuclear gate valve application, Southern California Edison Company.

Thrust Rating Increase of Limitorque SB-00 Through SB-1 Operators And SB-2 Spring Compensator Assemblies, Limitorque Phase II Project Participants.

Over-Torque And Over-Thrust Evaluation Of Limitorque SBD-1 Operators, nuclear gate valve applications, Florida Power Corporation.

Design Analysis Of The MSIV Actuator Stem Leakage Collector, nuclear gate valve application, Louisiana Power And Light Company.

Failure Analysis Of A 20" x 16" x 20" WKM Gate Valve, nuclear gate valve application, Southern California Edison Company.

- UNITED STATES PATENTS -
George A. Moran, P.E.

4,071,041	BALL VALVE SEAT RING CONSTRUCTION. January 31, 1978.
4,135,545	BALL VALVE SEAT ASSEMBLY HAVING A SWAGED SEAT RING TO RETAIN THE FACE SEAL. January 23, 1979
4,147,327	METALLIC SEALS FOR BALL VALVE. April, 3, 1979.
4,151,855	BALL VALVE ASSEMBLY TOOLS AND METHOD OF USING SAME. May 1, 1979.
4,290,581	SEAT ASSEMBLY FOR BALL VALVES. September, 22, 1981.
4,291,862	EXPANDING GATE VALVE. September 29, 1981.
4,486,003	GATE VALVE STRUCTURE. December 4, 1984.
5,377,751	APPARATUS AND METHOD FOR CENTRALIZING DOWNHOLE PIPE AND BLAST JOINTS. January 3, 1995

ATTACHMENT B
LEGAL ACTIVITY 2003 TO 2008
GEORGE A. MORAN, P.E.

1995?/PRESENT:

SAFOCO PATENT INFRINGEMENT

Plaintiff, Deposition

Ms. Julie Cunningham & Mr. David Anderson, Attorneys at Law

270 First City Tower, 1001 Fannin Street, Houston, Texas 77002-6712

2006/2007:

PIGGING OPERATION – FRANK & BEATTY VS. CENTRAL EXCAVATING, INC. & RELIANT ENERGY
GAS TRANSMISSION COMPANY

Plaintiff, Deposition

Mr. Mark Ledbetter, Attorney at Law

Taylor, Halliburton, & Ledbetter, 254 Court Avenue, Suite 305, Memphis, Tennessee 38103

2002/2005:

SHADDOCK VS. BACKSAVER PRODUCTS:

Plaintiff, Deposition

Mr. John Bradford, Attorney at Law

Stockwell, Sievert, Viccellio, Clements & Shaddock, Post Office Box 2900, Lake Charles, Louisiana
70602

2004/2005:

HOSE HOIST CRANE, APPLETON MARINE, CIVIL NO. 2:03CV299

Plaintiff, Deposition

Captain Sheriff Saudi

5222 Spruce, Bellaire, Texas 77401

2003:

EDUARDO DE LA GARZA VS. SEARS ET AL

Plaintiff, Deposition

Dennis Spruling, Attorney at Law

4720 Dowling, Houston, Texas 77004

2003:

WORLDWIDE OIL FIELD MACHINE, INC. VS VIJAY CHATUFALE AND HP&T PRODUCTS, INC. CIVIL
ACTION CAUSE NUMBER 01-CV-119949

Plaintiff, Arbitration Testimony

Mr. Kent A. Rowald, Attorney at Law

Bracewell & Patterson, LLP, 711 Louisiana, Suite 2900, Houston, Texas 77002

**ATTACHMENT C
LIST of DOCUMENTS**

PROTECTIVE ORDER:

Preliminary Protective Order, August 26, 2005, Civil Action H-05-0739

CLAIM DEFINITION:

Document 94:

Report And Recommendation On Claim Construction, CIVIL NO. 4:05-CV-0039

PATENTS:

U.S. Patent 6,089,531 granted July 18, 2000 ("531 Patent")

U.S. Patent 6,250,605 granted May 20, 2003 ("605 Patent")

U.S. Patent 6,854,704 granted February 15, 2005 (704 Patent")

U.S. Patent 7,028,986 granted April 16, 2006 ("986 Patent")

CLAIM CHART

Safoco's Claim Charts for U.S. Patent 6,089,531 for

Pneumatic Diaphragm Actuators

Pneumatic Piston Actuators

Pneumatic Hydraulic Actuators

Safoco's Claim Charts for U.S. Patent 6,250,605 for:

Pneumatic Diaphragm Actuators

Pneumatic Piston Actuators

Pneumatic Hydraulic Actuators

Safoco's Claim Charts for U.S. Patent 6,854,704 for:

Pneumatic Diaphragm Actuators

Pneumatic Piston Actuators

Pneumatic Hydraulic Actuators

U.S. Patent 7,028,986 granted April 16, 2006 ("986 Patent")

Pneumatic Diaphragm Actuators

Pneumatic Piston Actuators

Pneumatic Hydraulic Actuators

LEGAL MOTIONS:

Document 114:

Cameron International Corporation's Renewed And Revised Motion And Supporting Memorandum For Summary Judgment

Document 118:

Plaintiff SAFOCO's, Inc. Response To Cameron International Corporation's Renewed And Revised Motion For Summary Judgment And SAFOCO's Memorandum In Opposition To Summary Judgment

Defendant Cameron's Consolidated Response In Opposition To Plaintiff SAFOCO's Two Motions (Docket Nos. 123 and 124) For Partial Summary Judgment Of Infringement Regarding Claims 2 and 21 Of The 531 Patent

Declaration Of Eric Wehner In Support Of Defendant Cameron's Consolidated Response In Opposition To Plaintiff SAFOCO's Two Motions (Docket Nos. 123 and 124) For Partial Summary Judgment Of Infringement Regarding Claims 2 and 21 Of The 531 Patent

Plaintiff SAFOCO's Reply To Defendant Cameron's Consolidated Response In Opposition To
Plaintiff SAFOCO's Two Motions For Partial Summary Judgment (DE 134 and 135) And Plaintiff
SAFOCO's Opposition To Defendant Cameron's Request For Summary Judgment

TECHNICAL DOCUMENTS by BATES NUMBER:

Drawings:

CC01000 to CC01103
CC01112 to CC01299
CC01300 to CC01399
CC01400 to CC01499
CC01500 to CC01599
CC01600 to CC01799
CC01800 to CC01899
CC01900 to CC01999
CC02000 to CC02047
CC02131 to CC02153
CC02231 to CC02232
CC02240 to CC02243
CC05674 to CC05737

Operation and Maintenance Manual

CC03832 to 3855

Cameron Revision History:

CC02048 to CC02077
CC5791 to CC7316 with Exceptions

Part Numbers:

CC03105 to CC03181

Depositions:

Oral Deposition Of Davy Pampell, P.E., August 3, 2007

CAMERON ACTUATORS
CONFIDENTIAL - ATTORNEYS EYES ONLY

Part Number	Model	Drawing #	Draw. Date	Bates #	531	605	704	986	Bates ECN	Patented Feature		
										L Spr Ret	U Spr Ret	Top Shaft
Y55012-00200001	MA 12	YMD-013200	04/03/97	CC1303	2/21/22	3	1/4/7	1/2/3/8/9/10	CC7103	5/23/2003	2/10/2006	
Y55012-01200301	MA 1212-3	SK-132246-01	11/09/99	CC1304	2/21/22	3	1/4/7	1/2/3/8/9/10	C7114	5/12/2004	3/20/2006	
Y55012-02000301	MA 1204	SK-132267-01	11/17/99	CC1306	2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	3/20/2006	
Y55013-00000301	MP 1302/3	SK-132781-01	07/05/01	CC1305	21/22	3	1/7	1/2/3/8/9/10	CC7118	6/5/2003	3/20/2006	
Y55016-00000201	MA 1608	YMD-016233	03/27/95	CC2044	2/21/22	3	1/4/7	1/2/3/8/9/10	CC7164	(1)	(2)	
Y55016-00200001	MA 16	YMD-013617	11/06/94	CC1874	2/21/22	3	1/4/7	1/2/3/8/9/10	CC7182	7/1/2003	3/20/2006	
Y55016-00000101	MA 16	YMD-014177	04/13/05	CC1307	2/21/22	3	1/4/7	1/2/3/8/9/10	CC7160	7/21/2003	3/31/2006	
Y55016-01200301	MA 1612-3	YMD-019200		CC1318	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7191	(1)	3/20/2006	
Y55016-01600301	MA 1616-3	YMD-014585	04/03/97	CC1309	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7194	3/31/2004	3/20/2006	
Y55018-00000001	MP 1805	YMD-015115	04/03/97	CC1310	21/22	3	1/7	10	CC7202	-	5/5/2006	(3)
Y55018-00000401	MP 18 dual	YMD-015115	04/03/97	CC1310	21/22	3	1/7	10	CC7198	-	5/5/2006	(3)
Y55020-00200001	MA 20				??							
Y55020-00000201	MA2002	YMD-019206			2/21/22	3	1/4/7	1/2/3/8/9/10	CC2055	7/1/2003	4/11/2006	
Y55020-00000301	MA 2003	YMD-019329			2/21/22	3	1/4/7	1/2/3/8/9/10	CC7222	1/12/2004	7/11/2006	
Y55020-00000401	MA 2004	SK-132379-02	09/18/97	CC1313	2/21/22	3	1/4/7	1/2/3/8/9/10	CC7073	(1)	4/26/2006	
Y55020-02000301	MA 2020-3	YMD-021038	08/23/96	CC1314	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7244	3/4/2004	7/11/2006	
Y55020-02000401	MA 2020-4	YMD-019234	04/02/97	CC1315	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7251	7/10/2003	7/11/2006	
Y55020-02000501	MA 2020-5	YMD-021169	03/20/97	CC1316	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7258	(1)	(2)	
Y55020-00000801	MA 2020	YMD-019117	04/03/97	CC2045	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7235	(1)	(2)	
Y55030-00000201	MH 3002	YMD-019281	06/24/96	CC1904	21/22/27	3	1/7	1/2/3/8/9/10		12/20/2004	3/20/2006	
Y55030-00000201	MH 3532/3	SK-133152-01	12/16/04	CC1747	21/22/27	3	1/7	1/2/3/8/9/10		12/20/2004	3/20/2006	
Y55070-00000301	MH 7304	SK-132069-01	03/12/99	CC1753	*	3	*	10	CC7291	-	4/26/2006	
Y55070-00000401	MH 7302NRS	SK-132072-01	03/12/99	CC1351	*	3	*	10		-	4/26/2006	
Y55070-00000601	MH7506	SK-132067-01	03/10/98	CC2046	*	3	1/7	10		-	(2)	
Y55070-00003001	MH 7302NRS	SK-132065-01	03/05/00	CC2047	*	3	*	10		-	(2)	
Y55170-00030201	MH 7302	SK-132052-01	12/06/97	CC1756	*	3	1/7	10	CC7306	-	(2)	
Y55270-00030301	MH 7303RS	SK-132071-01	03/05/98	CC1758	*	3	1/7	10	CC7310	-	(2)	
										-		
2149997-01-01	MA1602/3	YMD-013617	11/06/94	CC1874	2/21/22	3	1/4/7	1/2/3/8/9/10	CC5858	7/1/2003	3/20/2006	
2149997-01-04	MA 1602/3	SK-132504-01	06/15/00	CC1113	2/21/22	3	1/4/7	1/2/3/8/9/10	CC5861	(1)	(2)	
2149997-01-05	MH 7402RS	SK-132275-01			*	3	1/7	10		-	(2)	

CAMERON ACTUATORS
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Part Number	Model	Drawing #	Draw. Date	Bates #		531	605	704	986	Bates ECN	Patented Feature		
											L Spr Ret	U Spr Ret	Top Shaft
2149997-01-06	MA 1602/3	SK-132504-01	06/15/00	CC1113		2/21/22	3	1/7	10	CC5867	(1)	(2)	
2149997-01-07	MP 1402	SK-132697-01	04/07/01	CC1012		*	3	1/7	10	CC5870		(2)	
2149997-01-08	MA 2002	SK-132771-02		CC1236		2/21/22	3	1/4/7	1/2/3/8/9/10	CC5873	3/24/2005	(2)	
2149997-01-09	D244B04	SK-132784-01	07/09/01	CC1803		*	*	*	*				
2149997-01-10	D244B04	SK-132784-01	07/09/01	CC1803		*	*	*	*				
2149997-01-11	D244B04	SK-132784-01	07/09/01	CC1803		*	*	*	*				
2149997-01-12	D244B04	SK-132792-01	07/10/01	CC1116		*	*	*	*				
2149997-01-13	D244B04	SK-132792-01	07/10/01	CC1804		*	*	*	*				
2149997-01-14	MH 7402RS	SK-132812-01	08/10/02	CC1322		*	*	*	*				
2149997-01-15	MA 2002	SK-132771-02		CC1236		2/21/22	3	1/4/7	1/2/3/8/9/10		3/24/2005	(2)	
2149997-01-16	MA 1602/3	SK-132504-01	06/15/00	CC1113		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-02-01	MA 2002	SK-132949-01	08/21/02	CC1117		2/21/22	3	1/4/7	1/2/3/8/9/10	CC5884	1/20/2004	(2)	
2149997-02-04	MA 1212-2	SK-132246-01		CC1304		2/21/22	3	1/7	1/2/3/8/9/10	CC5887	5/12/2004	3/20/2006	
2149997-02-07	MP 1703	SK-133032-01	07/24/03	CC1118		*	3	1/4/7	1/2/3/8/9/10	CC5890	7/24/2003	(2)	(3)
2149997-02-09	MA 1212-2	SK-133174-01	07/08/05	CC1119		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-02-10	MP 1703	SK-133032-01	07/24/03	CC1118		*	3	*	10		7/24/2003	(2)	(3)
2149997-02-11	MH7202NRS	SK-132068-01	03/30/98	CC1323		*	3	*	10		-	(2)	
2149997-02-14	ESD	SK-132216-01	08/31/99	CC1325		*	3	1/7	10			(2)	
2149997-02-15	MH7302RS	SK-132360-01	12/20/99	CC1326		*	3	1/7	10		-	(2)	
2149997-02-16	MH 7402NRS	SK-132276-02	01/10/00	CC1327		*	*	*	*				
2149997-02-17	MH 7202NRS	SK-132369-01	01/12/00	CC1328		*	3	1/7	10		-	(2)	
2149997-02-18	MH 7302RS	SK-132430-01	03/28/00	CC1329		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-02-19	MA 1202	SK-132401-01	02/14/00	CC1241		2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/2003	2/10/2006	
2149997-02-20	MH 7302NRS	SK-132430-02	05/22/00	CC1330		*	3	*	10			(2)	
2149997-02-22	MH 7202RS	SK-132459-01		CC5679		*	3	1/7	10		-	(2)	
2149997-02-23	MH 7302RS	SK-132471-01	05/30/00	CC1331		*	3	1/7	10		-	(2)	
2149997-02-24	MH7202RS					*	3	*	10				
2149997-02-25	MH7302NRS	SK-132533-01	07/25/00	CC1332		*	3	*	10		-	4/26/06	
2149997-02-26	MH 7402RS	SK-132526-01	07/21/00	CC1333		*	*	*	*				
2149997-02-27	MP 1302/3	SK-132557-01	08/28/00	CC1120		21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-02-28	MA 1202	SK-132594-01	10/26/00	CC1121		2/21/22	3	1/4/7	1/2/3/8/9/10	CC5910	5/29/03	2/10/2006	
2149997-02-29	MH 7402RS	SK-132526-02	03/21/02	CC1334		*	*	*	*				
2149997-02-30	MH 7402RS	SK-132276-03	03/21/01	CC1335		*	*	*	*				
2149997-02-31	MH 7503RS	SK-132633-01		CC5678		*	*	*	*				
2149997-02-32	MH 7202RS	SK-132654-01	02/19/01	CC1336		*	3	1/7	10		-	(2)	
2149997-02-33	MH 7402NRS	SK-132276-01	04/24/01	CC1337		*	*	*	*				
2149997-02-34	MA 1202/3	SK-132694-01	03/17/01	CC1122		2/21/22	3	1/4/7	1/2/3/8/9/10	CC5913	5/29/03	2/10/06	(B/M)
2149997-02-35	MH 7402NRS	SK-132276-02				*	3	*	10		-	(2)	
2149997-02-36	MH 7302NRS	SK-132768-01	06/06/01	CC1338		*	3	*	10		-	(2)	
2149997-02-37	MA 2016-2	SK-132805-01	08/03/01	CC1123		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	

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Part Number	Model	Drawing #	Draw. Date	Bates #	531	605	704	986	Bates ECN	Patented Feature		
										L Spr Ret	U Spr Ret	Top Shaft
2149997-02-39	MH 7402NRS	SK-132276-05	08/02/01	CC1339	*	*	*	*				
2149997-02-40	MP 1702	SK-132803-01	07/27/01	CC1124	21/22	3	1/7	1/2/3/8/9/10	CC5914	(1)	(2)	(3)
2149997-02-41	D122				*	*	*	*				
2149997-02-42	D122				*	*	*	*				
2149997-02-43	MH 7402RS	SK-132811-01	08/09/01	CC1340	*	*	*	*				
2149997-02-44	MA 1202/3	SK-132816-01	08/15/01	CC1125	2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-02-45	MA 1602/3	SK-132813-01	08/13/01	CC1126	2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-02-46	MP 1302/3	SK-132822-01	08/28/01	CC1127	21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149997-02-47	MH 7302NRS	SK-132533-01		CC1332	*	3	*	10		-	4/20/2006	(B/M)
2149997-02-48	MH 7402NRS	SK-078717-01	10/30/01	CC1341	*	*	*	*				
2149997-02-49	MP 1302/3	SK-132557-02	11/14/01	CC1145	21/22	3	1/4/7	1/2/3/8/9/10	CC5934	(1)	(2)	
2149997-02-51	MA 1202/3	SK-132856-01	11/15/01	CC1129	2/21/22	3	1/4/7	1/2/3/8/9/10	CC5935	5/23/05	2/10/06	(B/M)
2149997-02-52	MH 7402RS	SK-132863-01	12/10/01	CC1342	*	*	*	*				
2149997-02-54	MP 1302/3	SK-132884-01	04/06/02	CC1130	21/22	3	1/7	1/2/3/8/9/10	CC5936	6/25/2003	(2)	
2149997-02-55	MH 7402RS	SK-132863-01	12/10/01	CC1342	*	*	*	*				
2149997-02-57	MH 7402NRS	SK-132276-07	04/23/03	CC1343	*	*	*	*				
2149997-02-58	MH 7402RS	SK-132863-01	10/11/02	CC1344	*	*	*	*				
2149997-02-59	MH 7402RS	SK-132276-01		CC1347	*	3	1/7	10		-	(2)	
2149997-02-60	MP 1302/3	SK-133034-01	07/05/03	CC1131	*	3	1/7	1/2/3/8/9/10	CC5937	-	(2)	
2149997-02-61	MP 1302/3	SK-133038-01	07/07/03	CC1132	*	3	1/7	1/2/3/8/9/10	CC5938	-	(2)	
2149997-02-62	MH 7402RS	SK-133041-01			*	*	*	*				
2149997-02-63	MH 7402RS	SK-133043-01		CC1806	*	*	*	*				
2149997-02-67	MA 1202/3	SK-133027-01	02/07/06	CC1807	*	*	*	*				
2149997-02-87	MP 1302/3	SK-133012-03	10/24/03	CC1133	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-02-95	MA 2002	SK-132960-01	09/30/02	CC1134	2/21/22	3	1/4/7	1/2/3/8/9/10	CC5941	7/1/03	4/11/06	(B/M)
2149997-02-97	MH 7402RS	SK-132276-02	01/16/03	CC1345	*	*	*	*				
2149997-02-99	MP 1302/3	SK-133012-03	10/24/03	CC1133	21/22	3	1/7	1/2/3/8/9/10	CC5942	6/25/03	(2)	
2149997-03-01	MP 1303				21/22	3	1/7	1/2/3/8/9/10	CC5949	6/5/2003	(2)	(B/M)
2149997-03-02	MH 7503RS				*	3	1/4/7	10				
2149997-03-03	MA 2020-3	SK-133050-01	09/29/03	CC1135	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-03-04	MH 7303RS	SK-132112-01	07/08/09	CC1347	*	3	1/7	10			(2)	
2149997-03-05	MA 2003			CC1293	2/21/22	3	1/4/7	1/2/3/8/9/10		8/26/03	(2)	
2149997-03-06	MA 1616-3	SK-132513-01		CC1875	2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	(B/M)
2149997-03-07	MH 7703RS	SK-132215-01	09/01/98	CC1349	*	3	1/7	10			(2)	
2149997-03-10	MA 1202	SK-132269-01	11/18/99	CC1137	2/21/22	3	1/4/7	1/2/3/8/9/10	CC5969	(1)	(2)	
2149997-03-11	MA 1202/3	SK-132268-01	11/18/99	CC1138	2/21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149997-03-14	MP 1703	SK-132618-01	12/06/00	CC1808	*	3	1/7	1/2/3/8/9/10	CC5973	5/19/2003	(2)	(3)
2149997-03-15	MP 1703	SK-132411-01	02/23/06	CC1897	*	3	1/7	1/2/3/8/9/10		-	(2)	(3)
2149997-03-16	MP 1302	SK-132376-01	01/17/00	CC1140	21/22	3	1/7	1/2/3/8/9/10	CC5981	6/25/2003	(2)	

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											Patented Feature		
Part Number	Model	Drawing #	Draw. Date	Bates #		531	605	704	986	Bates ECN	L Spr Ret	U Spr Ret	Top Shaft
2149997-03-17	MP 1302					21/22	3	1/7	10	CC5995	6/25/2003	(2)	
2149997-03-18	MP 1302/3					21/22	3	1/7	?	CC5997	6/25/2003	(2)	
2149997-03-19	MH 7303RS					???							
2149997-03-21	MP 1302/3					21/22	3	1/7	1/2/3/8/9/10		6/25/03	3/20/06	B/M
2149997-03-24	MH 7303RS	SK-132263-01	11/12/99	CC1353		*	3	1/7	10		-	(2)	
2149997-03-25	MH 7303RS	SK-133100-01	06/16/03	CC1354		*	3	1/7	10		-	(2)	
2149997-03-30	MH 7403RS	SK-132223-01	09/24/99	CC1355		*	*	*	*				
2149997-03-31	MHW 50	SK-132326-01	12/09/99	CC1356		*	*	*	*				
2149997-03-32	MH 7503RS	SK-132365-01	06/08/00	CC1357		*	3	1/7	10		-	(2)	
2149997-03-33	MA 1602	SK-132366-01	01/11/00	CC1894		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6007	(1)	(2)	
2149997-03-34	MH 7403NRS	SK-132286-02	01/10/00	CC1779		*	*	*	*		-	(2)	
2149997-03-35	MH 7303NRS	SK-132370-01	01/12/00	CC1358		*	3	*	10		-	(2)	
2149997-03-41	MH 7303RS	SK-132456-01	05/12/00	CC1362		*	3	1/7	10		-	(2)	
2149997-03-42	MA 1602	SK-132472-01	05/25/00	CC1144		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6011	7/1/03	3/20/06	B/M
2149997-03-43	MH 70RS	SK-132479-01	06/02/00	CC1363		*	*	*	*				
2149997-03-44	MHW 7403RS					*	*	*	*				
2149997-03-45	MH 7503RS	SK-132505-01	06/19/00	CC1364		*	3	1/7	10		-	(2)	
2149997-03-46	MH 7403RS	SK-132383-02	05/23/00	CC1365		*	*	*	*				
2149997-03-47	MH 7303RS	SK-132809-01	08/08/01	CC1366		*	3	1/7	10		-	(2)	
2149997-03-48	MH 7403NRS	SK-132488-02	06/14/00	CC1367		*	*	*	*				
2149997-03-49	MH 7403RS	SK-132484-01	07/12/00	CC1368		*	*	*	*				
2149997-03-50	MHW 7503RS	SK-132483-01	06/12/00	CC1369		*	*	*	*				
2149997-03-51	MA 1616-3	SK-132513-01	06/29/00	CC1875		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-03-53	MA 1212-3	SK-132523-01	07/14/00	CC1147		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-03-54	MH 7403RS	SK-132529-01	07/24/00	CC1370		*	*	*	*				
2149997-03-55	MA 1202/3	SK-132585-01	10/09/00	CC2243		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6037	5/23/03	2/10/06	B/M
2149997-03-56	MP 1303	SK-132538-01	08/04/00	CC1148		21/22	3	1/7	1/2/3/8/9/10		9/10/03	(2)	
2149997-03-57	MA 1602/3	SK-132472-01	05/25/00	CC1144		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6037	7/1/03	3/20/06	B/M
2149997-03-58	MH 7703RS	SK-132556-01	08/18/00	CC1371		*	*	*	*		-		
2149997-03-59	MHW 7403RS	SK-132548-01	08/15/00	CC1372		*	*	*	*		-		
2149997-03-60	MA 1203	SK-132558-01	08/29/00	CC1149		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6643	(1)	(2)	
2149997-03-61	MP 1302/3	SK-132560-01	08/31/00	CC1150		21/22	3	1/7	10	CC6045	6/25/03	(2)	
2149997-03-64	MH 7403RS	SK-132575-01	09/25/00	CC1373		*	*	*	*		-		
2149997-03-66	MH 7303RS	SK-132435-02	10/10/00	CC1374		*	3	1/7	10		-	(2)	
2149997-03-67	MH 7503RS	SK-132435-02	10/10/00	CC1374		*	3	1/7	10		-	(2)	
2149997-03-68	MH 7503RS	SK-132536-02	10/06/00	CC1375		*	3	1/7	10		-	(2)	
2149997-03-69	MH 7503RS	SK-132536-01	11/22/00	CC1376		*	3	1/7	10		-	(2)	
2149997-03-71	MA 1202/3	SK-132608-01	11/18/00	CC1151		2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/03	2/10/06	B/M
2149997-03-72	MP 1703	SK-132618-01	12/05/00	CC1152		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2149997-03-73	MP 1704	SK-132681-01	02/26/01	CC1175		21/22	3	1/7	10	CC6048	(1)	(2)	(3)

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					531	605	704	986	Bates ECN	L Spr Ret	U Spr Ret	Top Shaft
2149997-03-74	MHW 7503RS	SK-132630-01	01/05/01	CC1378	*	*	*	*				
2149997-03-75	MH 7503RS	SK-132536-01	11/22/00	CC1376	*	3	1/7	10	CC6049	-	(2)	
2149997-03-76	MA 2020-3	SK-132642-01	02/04/01	CC1153	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6050	(1)	(2)	
2149997-03-77	MA 1602/3	SK-132693-01	03/17/01	CC1154	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6067	7/01/03	3/20/06	B/M
2149997-03-78	MA 1602/3	SK-132673-01	03/26/01	CC1155	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6068	7/01/03	3/20/06	B/M
2149997-03-79	MA 1202/3	SK-132757-01	05/02/01	CC1156	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6069	5/23/03	2/10/06	B/M
2149997-03-80	MA 1602/3	SK-132472-01	05/25/00	CC1144	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6070	7/01/03	3/20/06	B/M
2149997-03-81	MH 7302NRS	SK-132748-01	05/24/01	CC1379	*	3	*	10			(2)	
2149997-03-82	MA 1602/3	SK-132761-01	05/21/01	CC1157	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6071	7/01/03	3/20/06	B/M
2149997-03-84	MH 7403RS	SK-132283-01	12/02/99	CC5728	*	*	*	*				
2149997-03-85	MH7503RS	SK-132777-01	06/26/01	CC1380	*	*	*	*				
2149997-03-86	MH 7303NRS	SK-132780-01	06/28/01	CC1381	*	3	*	10		-	(2)	(3)
2149997-03-87	MH 7303RS	SK-132808-01	08/08/01	CC1382	*	3	1/7	10			(2)	
2149997-03-89	MP 1703	SK-132820-01	08/23/01	CC1158	21/22	3	1/7	1/2/3/8/9/10	CC6074	(1)	(2)	(3)
2149997-03-90	MH 7403RS	SK-132828-01	09/19/01	CC1383	*	*	*	*				
2149997-03-92	MH 7403RS	SK-132529-01	10/05/01	CC1384	*	*	*	*				
2149997-03-93	MHW 7403RS	SK-132847-01	10/17/01	CC1385	*	*	*	*				
2149997-03-95	MH 7503RS	SK-132536-01	08/01/00	CC1656	*	*	*	*				
2149997-03-96	MH 6533RS	SK-132865-01	12/18/01	CC1386	21/27	3	1/7	10	CC6095	-	(2)	
2149997-03-97	MH 7403RS	SK-132870-01	01/25/02	CC1387	*	*	*	*				
2149997-03-98	MH 7403RS	SK-132870-01	01/25/02	CC1387	*	*	*	*				
2149997-03-99	MH 7303RS	SK-132808-01		CC1382	*	3	1/7	10		-	(2)	
2149997-04-02	MH 7504RS				???	*	*	*				
2149997-04-03	MA1204				???				CC6102	???	???	
2149997-04-05	MA 1204	SK-132267-01		CC1306	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6103	10/20/03	3/20/06	B/M
2149997-04-06	MA 1204	SK-132266-01	11/06/98	CC1160	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6122	10/20/03	3/20/06	B/M
2149997-04-07	MH 7404NRS	SK-132889-01	04/16/02	CC1388	*	*	*	*				
2149997-04-08	MP 1704	SK-132377-01	01/17/02	CC1181	21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	(3)
2149997-04-12	MP 1704	SK-132377-01	01/17/02	CC1181	21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	(3)
2149997-04-16	MP 1704	SK-132377-01	01/17/02	CC1181	21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2149997-04-17	MHW 7504RS				*	*	*	*				
2149997-04-20	MA 1604				2/21/22	3	1/4/7	1/2/3/8/9/10		7/01/03	3/20/06	B/M
2149997-04-21	MP 1804	SK-132233-01	09/27/99	CC1014	*	3	1/7	10		-	(2)	(3)
2149997-04-23	MA 1604	SK-132362-01	12/28/99	CC1164	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6129	7/01/03	3/20/06	
2149997-04-24	MP 1805	SK-132028-01	9/28/1997	CC1876	*	3	1/7	10			(2)	(3)
2149997-04-25	MH 7704/5RS	SK-132477-03	05/02/02	CC1393	*	*	*	*		-		
2149997-04-26	MH 7704/5RS	SK-132477-03	06/13/02	CC1394	*	*	*	*				
2149997-04-27	MH 7504/5RS	SK-132897-01	06/10/02	CC1395	*	*	*	*				
2149997-04-28	MH 7404RS	SK-132899-02	07/16/02	CC1396	*	*	*	*				
2149997-04-29	MH 6534RS	SK-132374-01	01/15/00	CC1397	21/27	3	1/7	10		-	(2)	

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Part Number	Model	Drawing #	Draw. Date	Bates #		531	605	704	986	Bates ECN	Patented Feature		
											L Spr Ret	U Spr Ret	Top Shaft
2149997-04-30	MA 2016	SK-132264-01	11/16/99	CC1853		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6131	(1)	(2)	B/M
2149997-04-31	MH 6534RS	SK-132374-01	01/15/00	CC1397		21/27	3	1/7	10		-	(2)	
2149997-04-40	MH 7304RS	SK-132425-01	05/04/00	CC1398		*	3	1/7	10		-	(2)	
2149997-04-42	MH6534RS	SK-132374-01	03/06/00	CC1399		21/22	3	1/7	10		-	(2)	
2149997-04-43	MP 1704	SK-132439-01	03/28/00	CC1167		21/22	3	1/7	1/2/3/8/9/10	CC6132	8/23/2003	(2)	(3)
2149997-04-44	MHW 7404NRS	SK-132462-01	05/25/00	CC1400		*	*	*	*				
2149997-04-45	MH 7504RS	SK-132474-01	05/30/00	CC1401		*	*	*	*				
2149997-04-46	MH 7504/5	SK-132340-02	05/26/00	CC1402		*	*	*	*				
2149997-04-47	MHW 7504RS	SK-132473-01	06/02/00	CC1403		*	*	*	*				
2149997-04-48	MH 7704/5RS	SK-132477-01	05/03/00	CC1900		*	*	*	*				
2149997-04-49	MH 7504RS	SK-132415-01		CC1674		*	3	1/7	10		-	(2)	
2149997-04-50	MH 7504RS	SK-132316-01		CC5702		*	*	*	*				
2149997-04-51	MA 1612-4	SK-132412-02	06/08/00	CC2240		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6152	(1)	(2)	
2149997-04-52	MH 7404	SK-132317-01		CC5701		*	*	*	*		-	(2)	
2149997-04-53	MA 1616-4	SK-132490-01	06/12/00	CC1168		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6135	(1)	(2)	
2149997-04-55	MH 7304RS	SK-132519-01	07/07/00	CC1404		*	3	1/7	10		-	(2)	
2149997-04-56	MA 1616-4	SK-132490-01	06/12/00	CC1168		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-04-57	MH 7304RS	SK-132567-01	09/25/00	CC1405		*	3	1/7	10				
2149997-04-58	MA 1604	SK-132571-01	09/20/00	CC1169		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6158	(1)	(2)	
2149997-04-59	MP 1704	SK-132544-02	10/10/00	CC1170		21/22	3	1/7	1/2/3/8/9/10	CC6160	8/25/2003	(2)	(3)
2149997-04-60	MA 2004	SK-132512-02	10/20/00	CC1171		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6161	(1)	(2)	
2149997-04-61	MHW 7404/5RS	SK-132590-01	10/20/00	CC1406		*	*	*	*				
2149997-04-62	MH 7404/5RS	SK-132605-01	11/17/00	CC1407		*	*	*	*				
2149997-04-63	MA 2004	SK-132611-01	11/29/00	CC1172		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6162	(1)	(2)	
2149997-04-64	MP 1304	SK-132616-01	12/04/00	CC1173		*	*	*	*	CC6163			
2149997-04-65	MP 1305	SK-132628-01	01/09/01	CC1174		21/22	3	1/7	1/2/3/8/9/10	CC6164	(1)	(2)	
2149997-04-66	MH 7304RS					???							
2149997-04-68	MHW 7404/5RS	SK-132680-01	02/28/01	CC1409		*	*	*	*				
2149997-04-69	MP 1704	SK-132681-01	02/26/01	CC1175		*	3	1/7	10	CC6165		(2)	(3)
2149997-04-70	MH 6545RS	SK-132866-01	12/20/01	CC1681		21/27	3	1/7	10		-	(2)	
2149997-04-71	MP 1804	SK-132233-01	09/27/99	CC1014		*	3	1/7	10		-	(2)	(3)
2149997-04-73	MH 7404/5 NRS	SK-132751-01	04/20/01	CC1411		*	*	*	*				
2149997-04-74	MH 7404RS	SK-132753-01	04/25/01	CC1412		*	*	*	*				
2149997-04-76	MA 2020-4	SK-132485-01	06/07/00	CC1879		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6166	(1)	(2)	
2149997-04-77	MH 7404/5NRS					???							
2149997-04-78	MHW 7404 NRS	SK-132765-01	06/07/01	CC1413		*	*	*	*				
2149997-04-79	MHW 7404 NRS	SK-132766-01	06/06/01	CC1414		*	*	*	*				
2149997-04-80	D244B05	SK-132787-01	07/11/01	CC1176		*	*	*	*				
2149997-04-81	MP 1704	SK-132795-01	07/13/01	CC1177		21/22	3	1/7	1/2/3/8/9/10	CC6168	8/25/2003	(2)	(3)
2149997-04-82	MH 7404/5NRS	SK-132751-02	08/28/01	CC1415		*	*	*	*				

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											L Spr Ret	U Spr Ret	Top Shaft
2149997-04-83	MHW 7404/5 NRS	SK-132462-03	09/12/01	CC1416		*	*	*	*				
2149997-04-84	MH 7504 NRS	SK-132041-01	10/15/97	CC1417		*	3	*	10		-	(2)	
2149997-04-86	MH 7304RS	SK-132567-01		CC1405		*	3	1/7	10		-	(2)	
2149997-04-87	MHW 7404/5NRS	SK-132765-01	06/07/01	CC1419		*	*	*	*				
2149997-04-88	MP 1704	SK-132544-02		CC1170		21/22	3	1/7	1/2/3/8/9/10		8/25/2003	(2)	(3)
2149997-04-89	MH 7304RS	SK-132840-01	10/06/01	CC1420		*	3	1/7	10			(2)	
2149997-04-90	MHW 7404/5RS	SK-132845-01	10/12/01	CC1421		*	*	*	*				
2149997-04-91	MA 2020-4	SK-132485-01	06/07/00	CC1879		2/14/21/22	3	1/4/7	1/2/3/8/9/10		7/10/2003	7/11/2006	
2149997-04-94	MH 7404/5RS	SK-132753-01	12/11/01	CC1422		*	*	*	*				
2149997-04-95	MH 7404/5RS	SK-132871-01	01/25/02	CC1423		*	*	*	*				
2149997-04-97	MH 7404RS	SK-132320-01	12/04/99	CC1424		*	*	*	*				
2149997-04-98	MHW 7504					*	*	*	*				
2149997-04-99	MA 2004	SK-132888-01	04/11/02	CC1178		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6194	(1)	(2)	
2149997-05-04	MA 2005	SK-132092-02	09/29/98	CC1180		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6199	(1)	(2)	CC1425 MW
2149997-05-05	MAW 2012-5	SK-132131-01				???							
2149997-05-10	MH 7305 NRS					???							
2149997-05-11	MH 6755RS	SK-132090-01	03/09/96	CC1428		21/27	3	1/7	10		-	(2)	
2149997-05-12	MH 6755RS	?same?				?same?					-	(2)	
2149997-05-14	MHW 7705RS					*	*	*	*				
2149997-05-16	MH 7505NRS					???							
2149997-05-20	MH 7506RS	SK-132259-01	11/10/99	CC1430		*	*	*	*				
2149997-05-21	MA 2005	SK-132128-01	09/29/98	CC1180		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6216	(1)	(2)	
2149997-05-22	MAW 2012-5	SK-132131-01				???							
2149997-05-23	MH 6535RS	SK-132986-01	06/07/02	CC1431		21/22	3	1/7	10		-	(2)	
2149997-05-24	MH 7404/5NRS	SK-132322-01	01/10/00	CC1432		*	*	*	*				
2149997-05-25	MH 7305 NRS	SK-132371-01	01/12/00	CC1433		*	*	*	*				
2149997-05-26	MH 7305RS	SK-132394-01	02/05/00	CC1434		*	*	*	*				
2149997-05-27	MH 7505NRS	SK-132434-01	03/28/00	CC1435		*	3	*	10		-	(2)	
2149997-05-29	MHW 7304/5 NRS	SK-132414-01				*	*	*	*				
2149997-05-31	MH 7705NRS	SK-132547-01	08/18/00	CC1436		*	*	*	*				
2149997-05-33	MHW 7705NRS	SK-132550-01	08/16/00	CC1437		*	*	*	*				
2149997-05-36	MP 1705	SK-132460-01	05/15/00	CC1181		2/21/22	3	1/7	1/2/3/8/9/10	CC6223	(1)	(2)	(3)
2149997-05-37	MP 1705	SK-132532-01	07/28/00	CC1182		2/21/22	3	1/7	1/2/3/8/9/10	CC6226	(1)	(2)	(3)
2149997-05-38	MH 7506RS	SK-132552-01	08/18/00	CC1439		*	*	*	*				
2149997-05-39	MHW 7405NRS	SK-132602-01	11/21/00	CC1440		*	*	*	*				
2149997-05-40	MH 7405 NRS	SK-132604-01	11/30/00	CC1441		21/22	*	*	10		-	(2)	
2149997-05-41	MH 7706RS	SK-132586-01	11/17/01	CC1442		*	*	*	*				
2149997-05-41	MH 7506RS	SK-078674-01	05/28/01	CC1443		*	*	*	*				
2149997-05-43	MHW 7705RS	SK-132636-01	01/23/01	CC1444		*	*	*	*				
2149997-05-45	MH 7504RS	SK-078657-01	03/14/01	CC1446			3	1/7	10		-	(2)	

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											L Spr Ret	U Spr Ret	Top Shaft
2149997-05-46	MH 7504NRS	SK-078660-01	03/27/01	CC1447		*	*	*	*				
2149997-05-48	MHW 7404RS	SK-132652-01	02/15/01	CC1449		*	*	*	*				
2149997-05-49	MH 7404/5RS	SK-132646-01	02/15/01	CC1450		*	*	*	*				
2149997-05-51	MP 1805	SK-132238-02		CC1279		*	3	1/7	10		-	5/5/2006	(3)
2149997-05-52	MA 2020-5	SK-132759-01	05/04/01	CC1183		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6253	(1)	(2)	
2149997-05-53	MA 2020-5	SK-132760-01	05/04/01	CC1184		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6254	(1)	(2)	
2149997-05-54	MHW 7505RS	SK-132798-01	07/17/01	CC1452		*	*	*	*				
2149997-05-55	MHW 7705/6RS	SK-132636-01	07/01/04	CC1453		*	*	*	*				
2149997-05-56	MH 7504NRS	SK-078660-02	09/27/01	CC1454		*	*	*	*				
2149997-05-57	MHW 7705RS	SK-132848-01	10/30/01	CC1429		*	*	*	*				
2149997-05-58	MH 6755RS	SK-132853-01	10/03/01	CC1456		21/22	3	1/7	10		-	(2)	
2149997-05-59	MH 7706RS	SK-132698-01	11/27/01	CC1457		*	*	*	*				
2149997-05-60	MH 7706RS	SK-132860-01	12/03/01	CC1458		*	*	*	*				
2149997-05-61	MH 7504NRS	SK-078660-03	02/01/02	CC1459		*	*	*	*				
2149997-05-62	MHW 7504/5NRS	SK-132675-04	02/01/02	CC1810		*	*	*	*				
2149997-05-64	MH 7506RS	SK-132698-03	02/15/02	CC1462		*	*	*	*				
2149997-05-65	MH 7405NRS	SK-132604-01		CC1441		*	*	*	*				
2149997-05-66	MHW 7405NRS	SK-132602-01		CC1440		*	*	*	*				
2149997-05-67	MP 1705	SK-132882-01	04/02/02	CC1185		21/22	3	1/7	1/2/3/8/9/10	CC6261	(1)	(2)	(3)
2149997-05-70	MH 7404RS	SK-133099-01	02/18/04	CC1480		*	*	*	*				
2149997-05-71	MHW 7404/5RS	SK-132590-02	10/09/02	CC1466		*	*	*	*				
2149997-05-72	MH 6535RS	SK-132966-01	11/08/02	CC1467		21/27	3	1/7	10		-	(2)	
2149997-05-74	MH 7404/5RS	SK-132749-01	05/12/03	CC1469		*	*	*	*				
2149997-05-75	MHW 7505RS	SK-133017-01	07/18/03	CC1470		*	*	*	*				
2149997-05-76	MH 7505RS	SK-133019-02	06/18/03	CC1471		*	3	1/7	10		-	(2)	
2149997-05-78	MH 7504/5RS	SK-078657-03	09/10/03	CC1473		*	*	*	*				
2149997-05-81	MH 7506RS	SK-132876-01	02/15/02	CC5704		*	*	*	*				
2149997-05-82	MHW 7506RS	SK-132798-01		CC1452		*	*	*	*				
2149997-05-86	MH 6545RS	SK-132636-02	01/14/04	CC1479		21/27	3	1/7	10		-	(2)	
2149997-05-87	MP1705	SK-132882-01	04/04/02	CC1185		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2149997-05-91	MHW 7706RS	SK-132636-01	03/17/04	CC1481		*	*	*	*				
2149997-05-92	MH 6545RS	SK-132636-02		CC1479		21/27	3	1/7	10		-	(2)	
2149997-05-93	MH 6755RS	SK-133109-01	03/16/04	CC1482		21/27	3	1/7	10		-	(2)	
2149997-05-94	MH 6545RS	SK-132636-02		CC1479		21/27	3	1/7	10		-	(2)	
2149997-05-97	MP 1805	SK-133132-01	07/21/04	CC1186		*	3	1/7	10		(2)	(3)	
2149997-05-99	MH 7506RS	SK-078674-01	09/01/04	CC1484		*	*	*	*				
2149997-06-03	MH 7506RS	SK-132953-01	09/12/02	CC1486		*	*	*	*				
2149997-06-13	MH 7506 NRS	SK-132382-01	01/26/00	CC1492		*	*	*	*				
2149997-06-14	MH 7506NRS	SK-132441-01	04/03/00	CC1493		*	*	*	*				
2149997-06-16	MHW 7506NRS	SK-132444-01	04/14/00	CC1494		*	*	*	*				

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											L Spr Ret	U Spr Ret	Top Shaft
2149997-06-22	MP 2006	SK-132539-01	08/04/00	CC1021		*	3	1/7	10	CC6295		(2)	(3)
2149997-06-23	MHW 7506RS	SK-132583-01	07/28/00	CC1494		*	*	*	10				
2149997-06-26	MP 2006	SK-132539-01	08/04/00	CC1021		*	3	1/7	*	CC6297		(2)	(3)
2149997-06-31	MHW 7706RS	SK-132678-01	02/22/01	CC1500		*	*	*	*				
2149997-06-33	MHW 7505 RS	SK-132684-01	03/06/01	CC1502		*	*	*	*				
2149997-06-34	MH 7506 RS					???							
2149997-06-35	MH 7706 RS	SK-132695-01	03/29/01	CC1503		*	*	*	*				
2149997-06-38	MP 2006	SK-132539-01		CC1021		*	3	1/7	10	CC6303		(2)	(3)
2149997-06-39	MP 2006	SK-132821-01	08/27/01	CC1188		*	3	1/7	10	CC6305		(2)	(3)
2149997-06-40	MHW 7506NRS	SK-132836-01	10/04/01	CC1505		*	*	*	*				
2149997-06-41	MH 7506NRS	SK-132833-01	10/05/01	CC1506		*	*	*	*				
2149997-06-43	MHW 7706 RS	SK-143841-01	10/18/01	CC1507		*	*	*	*				
2149997-06-45	MH 7506NRS	SK-132868-01	01/22/02	CC1509		*	*	*	*				
2149997-06-46	MH 7506RS	SK-132873-01	01/26/02	CC1510		*	*	*	*				
2149997-06-49	MHW 7706NRS	SK-132592-02				*	*	*	*				
2149997-06-50	MH 7706RS	SK-132695-01		CC1503		*	*	*	*				
2149997-06-51	MH 7506RS	SK-132537-01		CC1813		*	*	*	*				
2149997-06-52	MHW 7506RS	SK-132684-01		CC1502		*	*	*	*				
2149997-06-53	MHW 7506RS	SK-132583-01		CC1494		*	*	*	*				
2149997-06-58	MH 7706RS	SK-132916-01	07/01/02	CC1515		*	*	*	*				
2149997-06-60	MH 7706RS	SK-132947-01	08/19/02	CC1517		*	*	*	*				
2149997-06-62	MH 7505RS	SK-132953-01	03/14/03	CC1519		*	*	*	*				
2149997-06-63	MHW 7506	SK-133011-01	04/03/03	CC1520		*	*	*	*				
2149997-06-67	MH 7706RS	SK-132916-01	08/04/03	CC1524		*	*	*	*				
2149997-06-68	MHW 7706RS	SK-132592-07	08/12/03	CC1525		*	*	*	*				
2149997-06-70	MH 7506RS	SK-132537-08	11/03/03	CC1527		*	*	*	*				
2149997-06-71	MHW 7505/6RS	SK-132684-01	11/04/03	CC1529		*	*	*	*				
2149997-06-72	MH 7505RS	SK-132953-01	11/19/03	CC1530		*	*	*	*				
2149997-06-77	MH 7706NRS	SK-132639-03	05/13/04	CC1532		*	*	*	*				
2149997-06-78	MHW 7706RS	SK-132841-01				*	*	*	*				
2149997-06-80	MHW 7706RS	SK-132592-08	08/27/04	CC1533		*	*	*	*				
2149997-06-81	MP 1706	SK-133156-01	01/18/05	CC1189		*	3	1/7	10			(2)	(3)
2149997-06-82	MH 7506RS	SK-132537-09	02/14/05	CC1534		*	*	*	*				
2149997-06-83	MH 7506NRS	SK-132441-02	05/19/05	CC1535		*	*	*	*				
2149997-06-84	MHW 7506NRS	SK-132684-03	06/02/05	CC1536		*	*	*	*				
2149997-06-85	MH 7506RS	SK-132537-09		CC1534		*	*	*	*				
2149997-06-86	MH 7506NRS	SK-132382-01	07/25/05	CC1537		*	*	*	*				
2149997-07-01	MH 6867 RS	SK-132105-01	07/04/98	CC1538		21/27	3	1/7	10		-	(2)	
2149997-07-06	MA 1616-6	SK-132613-01	11/21/00	CC1190		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6352	(1)	(2)	
2149997-07-11	MH 686RS	SK-133199-02	01/30/06	CC1817		21/27	3	1/7	10	CC6353	-	(2)	

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						531	605	704	986	Bates ECN	L Spr Ret	U Spr Ret
2149997-09-03	MHW 7909RS	SK-132572-02	10/16/01	CC1548	*	*	*	*				
2149997-09-04	MH 7709RS	SK-132862-01	12/11/04	CC1549	*	*	*	*				
2149997-09-05	MHW 7709RS	SK-132682-01	12/19/01	CC1550	*	*	*	*				
2149997-09-10	MHW 7709RS	SK-132862-06	02/17/05	CC1553	*	*	*	*				
2149997-12-02	MA 1602/3	SK-132813-01		CC1126	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6358	7/1/03	3/20/06	
2149997-12-03	MH 7402RS	SK-133015-02	07/10/03	CC1555	*	*	*	*				
2149997-12-05	MP 1302/3	SK-133118-01			21/22	3	1/7	1/2/3/8/9/10		6/5/2003	3/20/2006	
2149997-12-06	MA 1202	SK-133134-01	07/27/04	CC1821	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-12-07	MA 1202	SK-133134-02	08/02/04	CC1822	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-12-08	MA 1602/3	SK-133160-01	03/02/05	CC1823	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-12-09	MH 7402RS	SK-132575-03	08/05/04	CC1557	*	*	*	*				
2149997-12-10	MP 1302/3	SK-133012-04	08/20/04	CC1193	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-12-11	MA 1602/3	SK-133143-01	10/29/04	CC1192	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6360	(1)	(2)	
2149997-12-12	MA 1602/3	SK-133143-01	10/29/04	CC1192	2/21/22	3	1/4/7	1/2/3/8/9/10		7/1/03	3/20/06	
2149997-12-13	MP 1302	SK-133012-05	01/05/05	CC1193	*	3	1/7	1/2/3/8/9/10		7/1/03	3/20/06	
2149997-12-15	MP 1302/3	SK-133118-01			21/22	3	1/7	1/2/3/8/9/10		6/5/2003	3/20/2006	
2149997-12-16	MH 7503RS	SK-133163-01	03/09/05	CC1559	*	*	*	*				
2149997-12-17	MA 1202/3	SK-133165-02	03/10/05	CC1194	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-12-18	MH 7402RS	SK-132526-02		CC1334	*	*	*	*				
2149997-12-21	MP 1302	SK-132965-03	07/08/05	CC1195	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-12-22	MA 1616-3	SK-132948-01	08/23/02	CC1824	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6415	(1)	(2)	
2149997-12-24	MP 1302/3	SK-132822-02	07/29/05	CC1828	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-12-25	MP 1302/3	SK-133118-02	07/29/05	CC1829	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-12-16	MP 1703	SK-132097-18	04/06/06	CC1826	*	*	*	*				
2149997-12-29	MP 1302	SK-132781-06	04/05/06	CC1827	*	*	*	*				
2149997-12-32	MA 2003	SK-132960-01	10/02/02	CC1830	*	3	1/4/7	1/2/3/8/9/10	CC6418	(1)	(2)	
2149997-13-02	MH 7403RS	SK-132881-01	04/02/02	CC1564	*	*	*	*				
2149997-13-03	MH 7403RS	SK-132283-01		CC5691	*	*	*	*				
2149997-13-04	MH 7403NRS	SK-132972-01	11/06/02	CC1565	*	*	*	*				
2149997-13-05	MHW 7403NRS	SK-132973-01	11/14/02	CC1566	*	*	*	*				
2149997-13-06	MP 1703	SK-132411-01	02/23/00	CC1897	21/22	3	1/7	1/2/3/8/9/10	CC6421	(1)	(2)	(3)
2149997-13-07	MH 7703RS	SK-132566-01			???							
2149997-13-08	MP 1302/3	SK-132376-01		CC1140	21/22	3	1/7	1/2/3/8/9/10	CC6422	6/25/2003	(2)	
2149997-13-09	MH 7303RS	SK-132808-01		CC1382	*	3	1/7	10		-	(2)	
2149997-13-11	MH 7402RS	SK-133015-01	04/29/03	CC1568	*	*	*	*				
2149997-13-12	MP 1303	SK-132965-02	06/05/03	CC1198	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-13-13	MA 1602/3	SK-133021-01	05/20/03	CC1199	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-13-14	MH 7403RS	SK-133001-02	07/10/03	CC1569	*	*	*	*				
2149997-13-15	MP 1302/3	SK-132650-02	08/04/03	CC1832	*	3	1/7	1/2/3/8/9/10		-	(2)	

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											L Spr Ret	U Spr Ret	Top Shaft
2149997-13-19	MP 1303	SK-132965-02	06/05/03	CC1198		*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-13-20	MH 7403RS	SK-133044-01		CC5712		*	*	*	*	CC6426			
2149997-13-21	MA 1202/3	SK-132588-01		CC1257		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6442	(1)	(2)	
2149997-13-22	MH 7403RS	SK-133127-01	05/18/04	CC1573		*	*	*	*				
2149997-13-23	MH 7403RS	SK-133044-01		CC5712		*	*	*	*				
2149997-13-24	MA 1603	SK-133134-01	10/11/04	CC1833		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-13-26	MA 1616-3	SK-133137-01	08/16/04	CC1201		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-13-27	MH 7403RS	SK-133001-04	10/13/04	CC1574		*	*	*	*				
2149997-13-28	MH 7403RS	SK-133001-05	10/27/04	CC1575		*	*	*	*				
2149997-13-29	MH 7403RS	SK-133145-01	11/09/04	CC1576		*	*	*	*				
2149997-13-30	MH 7403RS	SK-133127-02	12/17/04	CC1577		*	*	*	*				
2149997-13-31	MH 7403RS	SK-133145-02	04/08/05	CC1578		*	*	*	*				
2149997-13-32	MA 1602/3	SK-132366-02	04/26/05	CC1202		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-13-33	MA 1616-3	SK-132513-01	06/29/00	CC1875		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149997-13-34	MH 7303RS	SK-133100-03	08/07/05	CC1579		*	3	1/7	10		-	(2)	
2149997-13-35	MP 1703	SK-132411-02	07/06/05	CC2231		*	3	1/7	1/2/3/8/9/10		-	(2)	(3)
2149997-13-36	MH 7403RS	SK-133044-02	08/01/05	CC1580		*	*	*	*				
2149997-13-37	MH 7403RS	SK-133044-03	08/30/05	CC1581		*	*	*	*				
2149997-13-38	MH 7403RS	SK-133044-03	08/30/05	CC1581		*	*	*	*				
2149997-13-39	MA 1202/3	SK-133183-01	09/26/05	CC1834		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-13-43	MA 1202/3	SK-132268-02	02/07/06	CC1836		*	*	*	*				
2149997-13-45	MP 1303	SK-133090-02	03/24/06	CC1838		*	*	*	*				
2149997-13-46	MH7035LRS3/RS	SK-133078-01	04/03/06	CC1800		*	*	*	*				
2149997-13-51	MP 1703	SK-132618-03	08/14/06	CC1842		*	*	*	*				(3)
2149997-13-52	MP1703	SK-132411-03	08/18/06	CC1843		*	*	*	*				(3)
2149997-14-03	MP 1704	SK-132961-01	10/02/02	CC1203		*	3	1/7	10	CC6450	-	(2)	(3)
2149997-14-05	MH 7405NRS	SK-132875-02	11/16/02	CC1584		*	*	*	*				
2149997-14-06	MH 7304RS	SK-132425-01		CC1398		*	3	1/7	10		-	(2)	
2149997-14-07	MA 1604	SK-132987-01	12/12/02	CC1204		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6451	(1)	(2)	
2149997-14-08	MH 7402RS	SK-132277-01		CC1629		*	*	*	*				
2149997-14-10	MP 1804	SK-132988-01		CC1270		*	3	1/7	10			5/5/2008	(3)
2149997-14-11	MH 7404NRS	SK-132875-01		CC1682		*	*	*	*				
2149997-14-12	MP 1704	SK-132544-02		CC1170		21/22	3	1/7	1/2/3/8/9/10	CC6471	8/23/2003	(2)	(3)
2149997-14-13	MHW 7404/5NRS	SK-132765-02	03/05/03	CC1586		*	*	*	*				
2140007-14-14	MHW 7404/5NRS	SK-132765-03	05/13/03	CC1587		*	*	*	*				
2149997-14-15	MH 7404/5NRS	SK-132875-03	05/15/03	CC1588		*	*	*	*				
2149997-14-16	MH 7404/5RS	SK-132320-02	05/21/03	CC1589		*	*	*	*				
2149997-14-17	MHW 7404/5RS	SK-132590-03	05/22/03	CC1590		*	*	*	*				
2149997-14-18	MP 1304	SK-132522-02	06/10/03	CC1205		*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-14-19	MH 7404/5RS	SK-132320-01		CC1424		*	*	*	*				

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											L Spr Ret	U Spr Ret	Top Shaft
2149997-14-20	MH 7404/5RS	SK-132899-03	07/28/03	CC1591		*	*	*	*				
2149997-14-21	MH 7404/5RS	SK-132317-01		CC5701		*	*	*	*				
2149997-14-22	MH 7404/5RS	SK-132318-01				???							
2149997-14-23	MA 2004	SK-133081-01	11/05/03	CC1206		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-14-25	MH 7404/5RS	SK-132897-02	11/16/03	CC1592		*	*	*	*				
2149999-14-29	MP 1304	SK-132522-02	06/10/03	CC1205		*	3	1/7	1/2/3/8/9/10	CC6472		(2)	
2149997-14-31	MH 7404/5RS	SK-132753-02				*	*	*	*				
2149997-14-32	MHW 7404/5RS	SK-132590-04	05/25/04	CC1596		*	*	*	*				
2149997-14-33	MA 2004	SK-132386-01		CC1265		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-14-34	MH 7404/5RS	SK-132319-02				???							
2149997-14-35	MHW 7404/5RS	SK-132590-01		CC1406		*	*	*	*				
2149997-14-36	MH 7404/5RS	SK-132575-01	08/05/04	CC1597		*	*	*	*				
2149997-14-37	MH 7404/5RS	SK-132575-04	08/13/04	CC1598		*	*	*	*				
2149997-14-38	MH 7504/5RS	SK-132340-01	08/09/04	CC1599		*	3	1/7	10		-	(2)	
2149997-14-39	MH 7404/5RS	SK-133142-01	09/18/04	CC1600		*	*	*	*				
2149997-14-41	MHW 7075D4	SK-132765-05	01/04/05	CC1602		*	*	*	*				
2149997-14-43	MHW 7404NRS	SK-079078-01	01/16/05	CC1604		*	*	*	*				
2149997-14-47	MP 1304	SK-132990-02	04/12/05	CC1207		*	3	1/7	1/2/3/8/9/10		-	(2)	
2149997-14-48	MH 7404/5RS	SK-132319-02				???							
2149997-14-49	MH 7404RS	SK-132871-01		CC1423		*	*	*	*				
2149997-14-50	MHW 7075D4	SK-132765-06	04/15/05	CC1607		*	*	*	*				
2149997-14-51	MH 7075D4	SK-132875-04	04/21/05	CC1608		*	*	*	*				
2149997-14-54	MP 1804	SK-132988-02	06/15/05	CC1208		*	3	1/7	10		-	(2)	(3)
2149997-14-55	MH 7404/5RS	SK-132320-03	06/17/05	CC1609		*	*	*	*				
2149997-14-56	MP 1704	SK-132616-02	06/22/05	CC1209		*	3	1/7	1/2/3/8/9/10		-	(2)	(3)
2149997-14-57	MA 2020-4	SK-132485-01		CC1879		2/14/21/22	3	1/4/7	1/2/3/8/9/10		7/10/2003	7/11/2006	
2149997-14-58	MHW 7404/5NRS	SK-132765-07	03/03/05	CC1610		*	*	*	*				
2149997-14-59	MH 7404/5RS	SK-132319-01		CC5698		*	*	*	*				
2149997-14-60	MP 1804	SK-132233-02	08/13/05	CC1777		*	3	1/7	10		-	(2)	(3)
2149997-14-61	MH7075D4	SK-132765-08	08/23/05	CC1611		*	*	*	*				
2149997-14-65	MA 1604	SK-132987-04	09/20/05	CC1845		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-14-65	MA 1204	SK-133184-01	09/27/05	CC1846		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-14-69	MP 1804	SK-132233-03	11/04/05	CC1850		*	3	1/7	10		-	(2)	(3)
2149997-14-74	MA 2004	SK-133111-02	09/14/05	CC1854		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149997-14-76	MA 2004	SK-132340-03	11/23/05	CC1856		*	*	*	*				
2149997-14-78	MP 1704	SK-133201-01	03/30/06	CC1858		*	*	*	*				(3)
2149997-14-79	MP 1304	SK-132628-03	05/31/06	CC1859		*	*	*	*				
2149997-14-82	MA 1602/3	SK-133022-03	05/17/06	CC2034		*	*	*	*				
2149997-14-87	MA 1616-4	SK-132490-02	02/05/06	CC1862		*	*	*	*				
2149997-15-01	MHW 7506RS	SK-132798-04	09/01/04	CC1614		*	*	*	*				

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										L Spr Ret	U Spr Ret	Top Shaft
2149997-15-02	MP 1705	SK-132532-02		CC1280	*	3	1/7	1/2/3/8/9/10	CC6497	-	(2)	(3)
2149997-15-04	MH 7505NRS	SK-07866-05	11/13/04	CC1615	*	*	*	*				
2149997-15-05	MH 7405NRS	SK-133148-01		CC5705	*	*	*	*				
2149997-15-06	MH 6865RS	SK-133109-02	01/07/05	CC1617	21/27	3	1/7	10		-	(2)	
2149997-15-07	MH 7404/5RS	SK-133148-02	05/11/05	CC1618	*	*	*	*				
2149997-15-08	MHW 7404/5NRS	SK-132652-03	04/28/05	CC1619	*	*	*	*				
2149997-15-09	MH 75045RS	SK-078657-01		CC1446	*	*	*	*				
2149997-15-10	MHW 750	SK-132675-02			*	*	*	*				
2149997-15-12	MHW 7404/5NRS	SK-132652-04	05/16/05	CC1620	*	*	*	*				
2149997-15-13	MH 7405NRS	SK-133148-01		CC5705	*	*	*	*				
2149997-15-14	MH 7404/5RS	SK-132646-01		CC1450	*	*	*	*				
2149997-15-15	MHW 7404RS	SK-132652-01			*	*	*	*				
2149997-15-16	MH 7706RS	SK-132698-02			???							
2149997-15-17	MP 1805	SK-132238-02		CC1279	*	3	1/7	10		-	5/5/2006	(3)
2149997-15-20	MH 7504/5NRS	SK-133047-02	07/25/05	CC1621	*	*	*	*				
2149997-15-21	MH 7404/5RS	SK-132826-02	07/28/05	CC1780	*	*	*	*				
2149997-15-22	MHW 7404/5RS	SK-132652-05	08/11/05	CC1622	*	*	*	*				
2149997-15-26	MP1705	SK-132532-03	12/23/05	CC1864	*	3	1/7	1/2/3/8/9/10		-	(2)	(3)
2149997-22-01	MA 2002	SK-132949-02	05/15/06	CC2035	*	*	*	*				
2149997-24-01	MA 1604	SK-133163-01	05/04/05	CC2036	*	*	*	*				
2149998-02-02	MA 1202	SK-132635-03	08/22/01	CC1210	2/22/22	3	1/4/7	1/2/3/8/9/10	CC6520	5/23/03	2/10/06	
2149998-02-03	MP 1302	SK-132635-02	08/16/01	CC1211	21/22	3	1/7	1/2/3/8/9/10	CC6521	6/25/2003	(2)	
2149998-02-04	MP 1302	SK-132635-03		CC1211	21/22	3	1/7	1/2/3/8/9/10	CC6522	6/25/2003	(2)	
2149998-02-06	MA 1202			CC1210	2/22/22	3	1/4/7	1/2/3/8/9/10	CC6523	5/23/03	2/10/06	
2149998-02-07	MA 1202	SK-132635-04	07/15/03	CC1778	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-02-08	MA 1202	SK-133036-01	08/08/03	CC1213	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-02-09	MA 1202	SK-133036-02	10/24/03	CC1214	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-02-10	MA 1202	SK-133036-02	02/18/04	CC1215	2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149998-02-11	MA 1202	SK-132635-05	02/20/04	CC1216	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-03-03	MP 1303	SK-132831-01	10/02/01	CC1217	21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149998-03-04	MA 1203	SK-132831-02	02/20/04	CC1218	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-03-05	MA 1603-PL	SK-133104-01	02/17/04	CC1219	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-04-06	MP 1704	SK-132689-02	09/18/01	CC1220	21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2149998-04-07	MA 1604-PL	SK-133029-01	07/31/03	CC1221	*	*	*	*				
2149998-04-08	MA 1604-PL	SK-133029-01	07/31/03	CC1221	*	*	*	*				
2149998-04-09	MA 1604-PL	SK-133029-02	02/24/04	CC1222	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-04-10	MA 1604-PL	SK-133029-02	02/24/04	CC1222	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-04-11	MA 1614-PL	SK-133029-03	04/01/04	CC1223	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-06-06	MA 1606	SK-132480-02	06/23/01	CC1224	2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	

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Part Number	Model	Drawing #	Draw. Date	Bates #		531	605	704	986	Bates ECN	Patented Feature		
											L Spr Ret	U Spr Ret	Top Shaft
2149998-06-07	MP 1706	SK-132469-03	09/19/01	CC1225		21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	(3)
2149998-06-08	MA 2006	SK-132818-01	09/04/01	CC1226		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149998-06-10	MA 1606	SK-132894-02	05/10/02	CC1227		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149998-06-11	MA 2006	SK-133025-01	07/15/03	CC1228		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-06-12	MA 2006	SK-132818-01	09/04/01	CC1226		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149998-06-14	MA 2006-PL	SK-132894-01	03/03/04	CC1229		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-06-15	MA 1606	SK-132894-04	02/09/04	CC1230		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-08-06	MA 2008	SK-132825-01	09/07/01	CC1231		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149998-08-07	MP 1808	SK-132850-01	10/24/01	CC1232		*	3	1/7	10		-	(2)	(3)
2149998-08-16	MA 2006PL	SK-132894-05	09/30/05	CC1869		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149998-10-03	MP 1810	SK-132790-01	08/02/01	CC1233		*	3	1/7	10		-	(2)	(3)
2149998-10-04	MP 1810	SK-132790-01	08/02/01	CC1233		*	3	1/7	10		-	(2)	(3)
2149998-10-05	MA 2016-10	SK-132790-02	04/12/04	CC1234		*	*	*	*				
2149998-12-01	D510	SK-132688-01				*	*	*	*				
2149998-12-02	D510	SK-132692-01				*	*	*	*				
2149998-14-01	MP 1814	SK-132807-01	08/09/01	CC1235		*	3	1/7	10		-	(2)	(3)
2149999-01-01	MA 1602/3					2/21/2022	3	1/4/7	1/2/3/8/9/10		7/1/2003	3/26/2006	
2149999-01-02	MA 1602/3					???							
2149999-01-13	MH7402RS	SK-132275-01				???							
2149999-01-14	MA 2002	SK-132771-02	03/21/05	CC1236		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-02-03	MP 1302					21/22	3	1/7	1/2/3/8/9/10		6/5/2003	3/26/2006	
2149999-02-04	MH 7202RS	SK-132654-01		CC1336		*	3	1/7	10		-	(2)	
2149999-02-05	MA 2002	SK-132771-02	03/21/05	CC1236		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-02-07	MA1212-3	SK-132246-01		CC1304		2/14/21/22	3	1/4/7	1/2/3/8/9/10		5/24/2003	3/20/2006	
2149999-02-08	MA 1202/3	SK-132797-01		CC1246		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6944	5/23/03	2/10/06	
2149999-02-10	MA 1202	SK-132335-01		CC1240		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6602	5/29/2003	2/10/06	
2149999-02-17	MA 1602/3	YVID-013617	05/24/94	CC1874		2/21/22	*	1/4/7	1/2/3/8/9/10	CC6605	7/1/03	3/20/06	
2149999-02-23	MP 1302					21/22	3	1/7	1/2/3/8/9/10	CC6608	6/25/2003	(2)	
2149999-02-25	MA 1202					2/21/22	3	1/4/7	1/2/3/8/9/10	CC6611	(1)	(2)	
2149999-02-26	MH 7302RS	SK-132778-02				???							
2149999-02-27	MA 1202	SK-132797-02	02/11/05	CC1239		2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/03	2/10/06	
2149999-02-28	MA 1202	SK-132856-01		CC1129		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6629	5/23/03	2/10/06	
2149999-02-29	MA 1202	SK-132856-01		CC1129		2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/03	2/10/06	
2149999-02-30	MH 7302RS					???							
2149999-02-33	MH 7402RS	SK-132277-01	12/01/99	CC1629		*	*	*	*				
2149999-02-38	MA 1202	SK-132335-01	12/14/99	CC1240		2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/03	2/10/06	
2149999-02-39	MA 1202	SK-132401-01	02/11/00	CC1241		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6650	5/23/03	2/10/06	
2149999-02-40	MA 1616-3	SK-132363-01	01/06/00	CC1890		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6652	(1)	(2)	
2149999-02-51	MH 7402RS	SK-132279-01		CC1915		*	*	*	*				

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										L Spr Ret	U Spr Ret	Top Shaft
2149999-02-59	MP 1302	SK-132402-01	02/14/00	CC1243	21/22	3	1/7	1/2/3/8/9/10	CC6654	6/25/2003	(2)	
2149999-02-60	MP 1703	SK-132424-01	03/03/30	CC1244	*	3	1/7	1/2/3/8/9/10		-	(2)	(3)
2149999-02-61	MH3532RS	SK-132438-01	04/03/00	CC1634	21/22/27	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149999-02-63	MA 1606	SK-132476-01	06/01/00	CC1245	2/21/22	3	1/4/7	1/2/3/8/9/10		7/1/03	3/20/06	
2149999-02-66	MH 7302RS	SK-132637-01	01/23/01	CC1637	*	3	1/7	10		-	(2)	
2149999-02-67	MH 7503RS	SK-132633-01	01/19/01	CC5478	*	*	*	*				
2149999-02-68	MH 7202RS	SK-132654-01		CC1336	*	3	1/7	10		-	(2)	
2149999-02-69	MH 7302RS	SK-132778-01	06/26/01	CC1893	*	3	1/7	10		-	(2)	
2149999-02-70	MA 1202	SK-132797-01	07/30/01	CC1246	2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/2003	2/10/2006	
2149999-02-71	MA 1202	SK-132802-01	07/25/01	CC1247	2/21/22	3	1/4/7	1/2/3/8/9/10		5/23/2003	2/10/2006	
2149999-02-72	MP 1702	SK-132817-01	08/20/01	CC1248	21/22	3	1/7	1/2/3/8/9/10	CC6659	(1)	(2)	(3)
2149999-02-73	MH 7302RS	SK-132577-01			???							
2149999-02-74	MH 7302RS	SK-132577-01			???							
2149999-02-75	MH 7302RS	SK-132854-01	10/24/01	CC1639	*	3	1/7	10		-	(2)	
2149999-02-76	MH 3532RS	SK-132858-01	11/28/01	CC1640	21/22/27	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149999-02-77	MP 1302	SK-132859-01	11/29/01	CC1249	21/22	3	1/7	1/2/3/8/9/10		6/5/03	3/26/2006	
2149999-02-78	MH 7302RS	SK-132854-01	10/24/01	CC1639	*	3	1/7	10		-	(2)	
2149999-02-79	MH 7302RS	SK-132956-01	10/01/02	CC1641	*	3	1/7	10		-	(2)	
2149999-02-80	MH 7202RS	SK-132459-01		CC5679	*	3	1/7	10		-	(2)	
2149999-02-81	MH 7402RS	SK-132277-01	12/01/99	CC1629	*	*	*	*				
2149999-02-82	MH 7402RS	SK-132280-01	21/1/99	CC5680	*	*	*	*				
2149999-02-83	MH 7503RS	SK-132633-02	04/06/03	CC1642	*	*	*	*				
2149999-02-85	MH 7402RS	SK-133043-01	08/19/03	CC1806	*	*	*	*				
2149999-02-86	MA 1602/3	SK-133051-01	10/21/03	CC1250	*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-02-87	MP 1302/3	SK-133012-03		CC1133	*	3	1/7	1/2/3/8/9/10	CC6680	-	(2)	
2149999-02-88	MP 1302/3	SK-132822-01		CC1127	*	3	1/7	1/2/3/8/9/10	CC6681	-	(2)	
2149999-02-89	MP 1302/3	SK-133188-01	04/13/04	CC1251	*	3	1/7	1/2/3/8/9/10		-	(2)	
2149999-02-90	MH 7403RS	SK-133119-01	04/15/04	CC1645	*	*	*	*				
2149999-02-93	MH 7403RS	SK-133119-01	04/15/04	CC1645	*	*	*	*				
2149999-02-94	MH 7402RS	SK-133041-01		CC5683	*	*	*	*				
2149999-02-95	MH 7402RS	SK-133043-01	08/19/03	CC1642	*	*	*	*				
2149999-02-96	MA 1212-3				2/14/21/22	3	1/4/7	1/2/3/8/9/10		5/12/2004	3/20/2006	
2149999-02-97	MH 7402RS	SK-133043-02	09/20/04	CC1647	*	*	*	*				
2149999-02-98	MP 1703	SK-132424-01		CC1244	*	3	1/7	1/2/3/8/9/10		-	(2)	(3)
2149999-02-99	MP 1302	SK-132859-02	03/28/05	CC1252	*	3	1/7	1/2/3/8/9/10				
2149999-03-01	MH 7302RS				???							
2149999-03-02	MH 7302RS				???							
2149999-03-03	MP 1302/3				21/22	3	1/7	1/2/3/8/9/10		6/5/03	3/26/2006	
2149999-03-04	MP 1403				*	3	1/4/7	10		-	(2)	
2149999-03-06	MA 1202/3				21/22	3	1/4/7	1/2/3/8/9/10		5/23/2003	2/10/2006	

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						531	605	704	986	Bates ECN	L Spr Ret	U Spr Ret	Top Shaft
2149999-03-07	MP 1302/3					21/22	3	1/4/7	1/2/3/8/9/10		6/5/2003	3/26/06	
2149999-03-09	MA 2003					21/22	3	1/4/7	1/2/3/8/9/10		1/12/2004	7/4/2006	
2149999-03-14	MH 7303RS					???							
2149999-03-18	MH 7303NRS					*	3	*	10		-	(2)	
2149999-03-19	MH3533RS					21/22/27	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149999-03-20	MA 1602/3					2/21/22	3	1/7	1/2/3/8/9/10		7/1/2003	3/20/2006	
2149999-03-22	MH 7302RS					*	3	*	10		-	4/26/2006	
2149999-03-26	MH 7303NRS					???							
2149999-03-27	MH 7303RS					???							
2149999-03-29	MA 1616-3					2/14/21/22	3	1/7	1/2/3/8/9/10		3/21/2004	3/20/2006	
2149999-03-32	MP 1803					*	3	1/7	10		-	(2)	(3)
2149999-03-36	MH 7403RS	SK-132285-01	11/29/99	CC1650		*	*	*	*				
2149999-03-53	MH 7403RS	SK-132286-01		CC5685		*	*	*	*				
2149999-03-54	MH 7403RS	SK-132286-01		CC5685		*	*	*	*				
2149999-03-55	MH 7403RS	SK-132449-03	06/23/02	CC1653		*	3	1/7	10		-	(2)	
2149999-03-56	MH 7303RS	SK-132449-05				*	3	1/7	10		-	(2)	
2149999-03-57	MP 1703	SK-132411-07	02/23/00	CC1897		21/22	3	1/7	1/2/3/8/9/10	CC6732	5/19/2003	(2)	(3)
2149999-03-59	MH 7303RS	SK-132384-01		CC5688		*	3	1/7	10		-	(2)	
2149999-03-60	MA 1602/3	SK-132366-01		CC1894		2/21/22	3	1/7	1/2/3/8/9/10	CC6734	7/1/03	3/26/06	
2149999-03-61	MP 1302	SK-132501-01	06/26/00	CC1841		21/22	3	1/7	1/2/3/8/9/10	CC6736	6/25/2003	(2)	
2149999-03-62	MA 1602/3	SK-132366-01		CC1894		2/21/22	3	1/7	1/2/3/8/9/10	CC6757	7/1/03	3/2/2006	
2149999-03-63	MH 7303RS	SK-132384-01		CC5688		*	3	1/7	10		-	(2)	
2149999-03-65	MH 7503RS	SK-132536-01	08/01/00	CC1656		*	*	*	*				
2149999-03-66	MH 7403RS	SK-132286-01		CC5685		*	*	*	*				
2149999-03-67	MA 1616-3	SK-132513-01	06/20/00	CC1875		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6758	(1)	(2)	
2149999-03-68	MH 7403RS	SK-132285-01		CC1650		*	*	*	*				
2149999-03-70	MH 7303NRS	SK-132780-01		CC1381		*	3	*	10		-	(2)	
2149999-03-71	MH 7303NRS					*	3	*	10		-	4/26/06	
2149999-03-72	MH 7202RS					*	3	1/7	10		-	(2)	
2149999-03-73	MHW 7403RS	SK-132951-01	08/26/02	CC1658		*	*	*	*				
2149999-03-74	MH 7403RS	SK-132285-01		CC1650		*	*	*	*				
2149999-03-75	MA 1603	SK-132763-01	01/01/01	CC1256		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6761	(1)	(2)	
2149999-03-77	MH 33532	SK-132857-01	11/28/01	CC1659		21/22/27	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149999-03-78	MH 7403NRS	SK-132286-02		CC1779		*	*	*	*				
2149999-03-79	MH 7303RS	SK-132914-01	06/26/02	CC1660		*	3	1/7	10		-	(2)	
2149999-03-80	MA 1203	SK-132588-02	07/23/02	CC1257		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-03-81	MH 7503RS	SK-132536-01		CC1376		*	*	*	*				
2149999-03-82	MHW 7403RS	SK-132951-01		CC1658		*	*	*	*				
2149999-03-83	MA 1212	SK-132523-01		CC1147		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6781	(1)	(2)	
2149999-03-84	MH 7403RS	SK-132283-01		CC5691		*	*	*	*				

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											L Spr Ret	U Spr Ret	Top Shaft
2149999-03-85	MP 1302/3	SK-132965-01	10/30/02	CC1258		21/22	3	1/7	1/2/3/8/9/10	CC6947	6/25/2003	(2)	
2149999-03-86	MH 7403NRS	SK-132286-02		CC1779		*	*	*	*				
2149999-03-87	MH 7403RS	SK-133001-02	02/28/03	CC1661		*	*	*	*				
2149999-03-89	MP 1302/3	SK-132376-01				???							
2149999-03-90	MH 7403RS	SK-132283-03	07/03/03	CC1662		*	*	*	*				
2149999-03-91	MH 3535RS	SK-133028-01	07/16/03	CC1896		*	3	1/7	10		-	(2)	
2149999-03-92	MH 7703RS	SK-132556-01		CC1371		*	*	*	*				
2149999-03-93	MH 7403RS	SK-133044-01	08/19/03	CC1664		*	*	*	*				
2149999-03-94	MH 7403RS	SK-133048-01	08/27/03	CC1665		*	*	*	*				
2149999-03-97	MH 7403RS	SK-133094-01		CC5694		*	*	*	*				
2149999-03-100	MA 1602/3	SK-132266-01		CC1160		2/21/22	3	1/4/7	1/2/3/8/9/10		7/1/2003	3/26/2006	
2149999-04-03	MA 1612-4	SK-132412-01	03/13/00	CC1259		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6787	(1)	(2)	
2149999-04-04	MA 2004					2/21/22	3	1/4/7	1/2/3/8/9/10	CC6789	11/5/03	4/26/06	
2149999-04-05	MH 7304RS					???							
2149999-04-06	MH 7304RS					???							
2149999-04-07	MP 1304	SK-132958-01	10/02/02	CC1260		*	*	*	*				
2149999-04-08	MP 1804					*	3	1/7	10		-	5/5/2006	(3)
2149999-04-09	MA 2020-4	SK-132485-01	06/07/03	CC1879		2/14/21/22	3	1/7	10		7/10/2003	7/11/2006	
2149999-04-11	MH 7304RS					???							
2149999-04-12	MH 7304RS					???							
2149999-04-25	MP 1704					21/22	3	1/7	10		8/25/2003	(2)	(3)
2149999-04-26	MA 1604					???							
2149999-04-29	MA 1604	SK-132543-01	08/04/00	CC1264		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6812	(1)	(2)	
2149999-04-30	MH 7304RS	SK-132262-01	11/11/99	CC1668		*	3	1/7	10		(1)	(2)	
2149999-04-37	MP 1704					21/22	3	1/7	10	CC6813	8/25/2003	(2)	(3)
2149999-04-39	MH 7404RS	SK-132320-01		CC1424		*	*	*	*				
2149999-04-40	MH 7504RS	SK-132415-01	03/01/00	CC1674		*	3	1/7	10		(1)	(2)	
2149999-04-41	MA 2004	SK-132386-01	01/20/00	CC1265		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6833	11/5/03	4/26/06	
2149999-04-55	MH 7404RS	SK-132320-01		CC1424		*	*	*	*				
2149999-04-58	MP 1304	SK-132522-01	07/17/00	CC1169		21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-59	MH 7704RS	SK-132477-01		CC1900		*	*	*	*				
2149999-04-60	MP 7504RS	SK-132565-01	09/14/00			*	?	?	1/2/3/8/9/10				
2149999-04-61	MP 7304RS	SK-132580-01	10/03/00	CC1677		*	3	*	10		-	(2)	
2149999-04-62	MA 2004	SK-132598-01	11/03/00	CC1267		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-63	MP 1304	SK-132607-01	11/14/00	CC1268		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-65	MHW 7504RS	SK-132640-01				*	*	*	*				
2149999-04-66	MHW 7504RS	SK-132640-01				*	*	*	*				
2149999-04-67	MA 1604	SK-132543-01		CC1880		2/21/22	3	1/7	1/2/3/8/9/10		7/1/2003	3/20/2006	
2149999-04-68	MA 2004	SK-132839-01	10/05/01	CC1269		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-69	MH 7304RS	SK-132855-01	11/01/01	CC1680		*	3	1/7	10		-	(2)	

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											L Spr Ret	U Spr Ret	Top Shaft
2149999-04-70	MH 6545RS	SK-132866-01	12/20/01	CC1681		21/27	3	1/7	10		-	(2)	
2149999-04-71	MH 7404/5RS	SK-132875-01	02/08/01	CC1682		*	*	*	*				
2149999-04-72	MH 7404/5RS	SK-132319-01		CC5698		*	*	*	*				
2149999-04-73	MH 7404RS	SK-132319-01		CC5698		*	*	*	*				
2149999-04-74	MP 1804	SK-132988-01	01/02/03	CC1270		*	3	1/7	10		-	(2)	(3)
2149999-04-75	MH 7404/5NRS	SK-132875-02		CC1584		*	*	*	*				
2149999-04-76	MH 7704RS	SK-132996-01	02/20/03	CC1683		*	*	*	*				
2149999-04-77	MA 2004	SK-132839-01		CC1269		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-80	MH 7404/5RS	SK-132328-01				*	*	*	*				
2149999-04-81	MA 1612-4	SK-132987-02				2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-82	MP13B04	SK-133087-01	12/04/03	CC1304		*	*	*	*				
2149999-04-83	MH 7404/5RS	SK-132317-01		CC5701		*	*	*	*				
2149999-04-84	MH 7404/5RS	SK-132315-01				*	*	*	*				
2149999-04-85	MH 7404/5RS	SK-133096-01	01/28/04	CC1684		*	*	*	*				
2149999-04-86	MA 2004	SK-133111-01	03/22/04	CC1272		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-04-87	MA 1612-4	SK-132987-02				???							
2149999-04-88	MA 1604	SK-132543-02	04/12/05	CC1273		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-04-89	MP 1704	SK-132543-02	04/12/05	CC1273		*	3	1/4/7	1/2/3/8/9/10		-	(2)	(3)
2149999-04-90	MA 2004	SK-133111-02	09/14/05	CC1854		*	3	1/7	1/2/3/8/9/10		-	(2)	
2149999-04-91	MA 2020-4	SK-13311-02	09/14/05	CC1878		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-04-92	MA 1602/3	SK-132543-01	08/04/00	CC1880		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-04-95	MP 1704	SK-132377-02	05/25/06	CC1881		*	*	*	*				
2149999-04-96	MH 7740/5RS	SK-132477-02	03/14/02	CC1685		*	*	*	*				
2149999-04-98	MA 1604	SK-132987-03	03/28/05	CC1274		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-04-99	MP 1704	SK-132377-01	01/17/00	CC1877		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2149999-05-04	MP 1805					*	3	1/7	10		-	5/5/2006	(3)
2149999-05-07	MH 7705RS	SK-132156-01	03/10/99	CC1686		*	3	1/7	10			(2)	
2149999-05-11	MH 7305NRS					??							
2149999-05-17	MH 7404/5RS	SK-132321-01		CC5703		*	3	1/7	10		-	(2)	
2149999-05-23	MA 2005	SK-132128-02	06/23/00	CC1275		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6879	(1)	(2)	
2149999-05-24	MA 2020-5	SK-132516-01	07/05/00	CC1276		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6880	(1)	(2)	
2149999-05-26	MH 7706RS	SK-132698-01	04/09/01	CC1691		*	*	*	*				
2149999-05-27	MA 2005	SK-132750-01	04/18/01	CC1277		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-05-28	MH 7404/5RS	SK-132321-01		CC5703		*	3	1/7	10		-	(2)	
2149999-05-29	MH 7404RS	SK-132749-01	05/24/01	CC1692		*	*	*	*				
2149999-05-30	MA 2005	SK-132794-01	07/12/01	CC1278		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-05-31	MP 1805	SK-132238-02	10/29/01	CC1279		*	3	1/7	1/2/3/8/9/10	CC6881	-	(2)	(3)
2149999-05-32	MH 7404RS	SK-132826-01	09/11/01	CC1885		*	*	*	*				
2149999-05-33	MH 7404/5RS	SK-132826-01		CC1885		*	*	*	*				

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					531	605	704	986	Bates ECN	L Spr Ret	U Spr Ret	Top Shaft
2149999-05-34	MH 6545RS	SK-132879-01	03/25/02	CC1694	21/27	3	1/7	10	-	(2)		
2149999-05-35	MH 7706RS	SK-132860-01		CC1458	*	*	*	*				
2149999-05-36	MH	SK-132876-01		CC5704	*	*	*	*				
2149999-05-37	MP 1705	SK-132532-02	04/14/04	CC1280	*	3	1/7	1/2/3/8/9/10	-	(2)	(3)	
2149999-05-40	MH 7506RS	SK-133182-01	08/30/06	CC1697	*	*	*	*				
2149999-05-42	MH 7404NRS	SK-133148-01		CC5705	*	*	*	*				
2149999-05-44	MA 2005	SK-132794-01	07/12/01	CC1884	2/21/22	3	1/4/7	1/2/3/8/9/10	CC6903	(1)	(2)	
2149999-06-02	MP17B06	SK-132067-01	03/10/99	CC1698	*	3	*	10				
2149999-06-07	MH 7506RS	SK-132240-02		CC5706	*	*	*	*				
2149999-06-08	MA 2020	SK-132431-05	05/26/99	CC1886	2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC6908	(1)	(2)	
2149999-06-09	MP 1706	SK-132521-01	07/11/00	CC2241	21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	
2149999-06-10	MH 7506RS	SK-132240-01	10/7/1999	CC1703	*	*	*	*				
2149999-06-12	MA 1616-6	SK-132629-01	01/25/01	CC1282	2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2149999-06-13	MH 7706RS	SK-132639-01	01/25/01	CC1812	*	*	*	*	CC6897			
2149999-06-14	MH 7506RS	SK-132537-01		CC1813	*	*	*	*				
2149999-06-15	MH 7706RS	SK-132639-01		CC1812	*	*	*	*				
2149999-06-16	MP 2006	SK-132838-02	10/18/01	CC1283	*	3	1/7	10	-	(2)	(3)	
2149999-06-17	MH 7506RS	SK-132537-01	08/09/00	CC1813	*	*	*	*				
2149999-06-19	MA 2016-6	SK-132886-01	04/12/02	CC1284	*	3	1/4/7	1/2/3/8/9/10	-	(2)		
2149999-06-20	MP 1806	SK-132998-01	02/24/03	CC1285	*	3	1/7	10	-	(2)	(3)	
2149999-06-21	MH 7506RS	SK-132593-01			???							
2149999-06-22	MP1706	SK-133084-01	12/03/03	CC1888	*	3	1/7	1/2/3/8/9/10	-	(2)	(3)	
2149999-06-25	MP 1806	SK-132998-01			???							
2149999-06-26	MH 7506RS	SK-132593-01			*	*	*	*				
2149999-06-28	MH7506RS				???							
2149999-06-50	MH 7706RS				???							
2149999-07-02	MHW 7507RS	SK-132428-01	03/27/00	CC1707	*	*	*	*				
2149999-07-03	MH 7907RS	SK-132964-01	10/22/02	CC1708	*	*	*	*				
2149999-12-01	MP 1302/3				???							
2149999-12-02	MH 3532RS	SK-132424-02	08/29/05	CC1709	*	3	1/7	1/2/3/8/9/10	-	(2)		
2149999-12-06	MA 1202	SK-132335-02	03/28/06	CC1892	*	*	*	*				
2149999-13-01	MH 7302NRS	SK-132335-02	04/27/04	CC1710	*	3	*	10	-	(2)		
2149999-13-02	MH 7403RS	SK-133001-01	02/26/03	CC5706	*	*	*	*				
2149999-13-03	MP 1703	SK-133128-01	05/20/04	CC1287	*	3	1/7	1/2/3/8/9/10	-	(2)	(3)	
2149999-13-04	MPW 1703	SK-133130-01	06/01/04	CC1288	*	3	1/7	10	-	(2)	(3)	
2149999-13-05	MH 7302NRS	SK-133123-01	04/17/04	CC1711	*	3	*	10	-	(2)		
2149999-13-06	MHW 7403RS	SK-133135-01	07/21/04	CC1712	*	*	*	*				
2149999-13-07	MP 1302/3	SK-132376-01			21/22	3	1/7	1/2/3/8/9/10	6/5/2003	3/26/2006		
2149999-13-08	MP 1703	SK-132411-01	02/23/00	CC1897	21/22	3	1/7	1/2/3/8/9/10	(1)	(2)	(3)	
2149999-13-09	MH 3535RS	SK-133154-01	12/21/04	CC1713	*	3	1/7	1/2/3/8/9/10	-	(2)		

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2149999-13-11	MP 13B03	SK-133166-01	03/08/05	CC1289		*	*	*	*				
2149999-13-12	MH 3532RS	SK-133172-01	04/27/05	CC1714		*	3	1/7	1/2/3/8/9/10		-	(2)	
2149999-13-13	MA 1602/3	SK-132366-01		CC1894		2/21/22	3	1/4/7	10		7/1/2003	3/20/2006	
2149999-13-36	MA 2020-3	SK-133050-01		CC1135		*	3	1/4/7	1/2/3/8/9/10		-	(2)	
2149999-13-37	MH 7403RS	SK-133044-01		CC1664		*	3	1/7	10		-	(2)	
2149999-13-38	MH 7430RS	SK-132286-01		CC5685		*	*	*	*				
2149999-13-40	MP 1703	SK-132411-01	02/23/00	CC1897		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2149999-13-43	MA 1603	SK-132763-02	04/07/06	CC1898		*	*	*	*				
2149999-13-44	MA 1616-3	SK-133137-02	07/31/06	CC1899		*	*	*	*				
2149999-14-01	MA 2004	SK-132839-02	07/11/06	CC2232		*	*	*	*				
2149617-01-03	MP 1702	SK-133200-01	02/22/06	CC1798		*	*	*	*				
2149700-05	MH 7506RS	SK-132352-07	11/19/04	CC1796		*	*	*	*				
2149700-05-01	MH 7075LR55/RS	SK-133193-03	11/30/05	CC1797		*	*	*	*				
2149800-01-01-01	MH70RS0300A	SK-133193-03	11/30/05	CC2131		*	*	*	*				
2149900-02-01	MH 7402RS	SK-132567-05				???							
2149900-03-01	MH 7303RS	SK-132449-01	04/17/00	CC1799		*	3	1/7	10		-	(2)	
2149900-03-02	MH 7035LRS3	SK-132567-06				???							
2149900-04-01	MH 7304RS	SK-132567-02	10/01/01	CC1801		*	3	1/7	10		-	(2)	
2149900-04-02	MH 70	SK-132567-04				???							
2149970-04-01	ME6004/SRS	SK-133106-01		CC5723		*	*	*	*				
2150020-01	MH 6534RS	SK-132039-01	10/13/97	CC1902		21/27	3	1/7	10		-	(2)	
2150066-61	MA 1616-3	SK-132061-01	12/29/97	CC1903		2/14/21/22	3	1/4/7	1/2/3/8/9/10		3/21/2003	3/26/2006	
2150125-01	MH 3002	YMD-019281	10/23/96	CC1904		21/22/27	3	1/7	10	CC6951	7/21/2003	3/20/2006	
2150175-01	MA 1612-4	YMD-019316	04/04/97	CC1291		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2150244-01	MP 1403	SK-132027-01	11/11/97	CC1292		*	3	1/7	10		-	(2)	
2150263-01	MA 20	YMD-19329	04/15/96	CC1293		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6958	8/26/2003	7/11/2006	
2150303-01	MA 2002	YMD-19206	04/04/97	CC1294		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6961	1/20/2004	4/11/2006	
2150344-03-01	MP 1703	SK-132097-04	08/07/96	CC1910		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2150366-04-01	MP 1704	SK-132097-06	08/07/98	CC1295		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2150366-24-06	MP 1704	SK-132097-06	08/07/98	CC1911		21/22	3	1/7	1/2/3/8/9/10		(1)	(2)	(3)
2150400-01	MA 1204	YMD-015168	04/03/97	CC1296		2/21/22	3	1/4/7	1/2/3/8/9/10	CC6965	10/3/03	3/20/2006	

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											L Spr Ret	U Spr Ret	Top Shaft
2150407-01	MH 6533RS	SK-132117-01	07/20/98	CC1717		21/27	3	1/7	10		-	(2)	
2150477-01	MH 6535RS	SK-132155-01	03/30/99	CC1721		21/27	3	1/7	10			(2)	
2150588-01	MA 1616-3	SK-132172-01	12/29/97	CC1297		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7002	(1)	3/20/2006	
2150588-02	MA 1616-3	SK-132172-02	01/07/00	CC1912		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)		
2150640-04	MA 2020-4	SK-132265-01	11/26/99	CC1914		*	*	*	*		-	(2)	
2150666-01	MH7303NRS	SK-132182-01	05/21/99	CC1734		*	3	*	10	CC7005	-	(2)	
2150682-02	Cooper Oil actuator	KG458781	12/02/92	CC1913		*	*	*	*				
2150777-01	MH 7302RS	SK-132208-01	08/13/99	CC1757		*	3	1/7	10		-	(2)	
2150840-05	MH 7402RS	SK-132273-01	11/29/99	CC1915		*	*	*	*				
2150840-05-03	MH 7402RS	SK-132810-01	08/19/01	CC1916		*	*	*	*				
2150840-06-06	MH 7403RS	SK-132281-03	05/22/00	CC1917		*	*	*	*				
2150840-07	MH 7404/5RS	SK-132288-01	12/02/99	CC1918		*	*	*	*				
2150840-07-07	MH 7404/5RS	SK-132752-02	12/11/01	CC1919		*	*	*	*				
2150840-07-08	MH 7404/5RS	SK-132288-01	12/02/99	CC1920		*	*	*	*				
2150840-12	MH 7506RS	SK-132352-01	12/17/99	CC1921		*	*	*	*				
2150840-12-04	MH 7506RS	SK-132352-04	10/15/02	CC1923		*	*	*	*				
2150840-14	MH 7706RS	SK-132354-01	12/20/99	CC1927		*	*	*	*				
2150840-17-01	MA 2016-6	SK-132885-01	04/12/02	CC1298		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7010	(1)	(2)	
2150840-22	MHW 7404/5NRS	SK-132451-02	05/25/00	CC1928		*	*	*	*				
2150840-35-01	MH 7506NRS	SK-132632-01	01/22/02	CC1929		*	*	*	*				
2150840-37-03	MH 7403RS	SK-133000-01	02/26/03	CC1930		*	*	*	*				
2150840-38-01	MH 7034LRS2	SK-133053-01	11/19/03	CC1931		*	*	*	*				
2150840-39-02	MH 7035LRS3	SK-133054-01	12/12/03	CC1932		*	*	*	*				
2150840-43	MA 2005	SK-132699-01	04/18/01	CC1299		2/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2150840-46	MH 7706NRS					???							
2150840-71	MH 7402RS	SK-133039-01	08/16/03	CC1934		*	*	*	*				
2150840-77-01	MH 7035LNRS4	SK-133150-02	12/01/04	CC1935		*	*	*	*				
2150850-03-02	MA 1602/3	SK-133159-01	03/01/05	CC1300		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2150850-29-01	MH 7506NRS	SK-132440-01		CC1937		*	*	*	*				
2150850-30-01	MHW 7506NRS	SK-132442-01	04/14/00	CC1937		*	*	*	*				
2150850-46	MH7706NRS	SK-132546-01	08/18/00	CC1938		*	*	*	*				
2150850-47	MHW 7706NRS	SK-132549-01	08/18/00	CC1939		*	*	*	*				
2150850-52	MA 2020-4	SK-132563-01	09/11/00	CC1301		2/14/21/22	3	1/4/7	1/2/3/8/9/10		(1)	(2)	
2150850-53	MA 2016-3	SK-132568-01	09/18/00	CC1302		2/14/21/22	3	1/4/7	1/2/3/8/9/10	CC7017	(1)	(2)	
2150850-64	MH 7404/5RS	SK-132781-05	07/07/05	CC1941		*	*	*	*				
2150850-68	MHW 7505/06RS	SK-078639-01	07/12/00	CC1942		*	*	*	*				
2150850-69	MH7506NRS	SK-132440-02	12/08/00	CC1943		*	*	*	*				
2150850-73-02	MH 7504/05RS	SK-132350-06	08/29/03	CC1944		*	*	*	*				
2150850-74-04	MH 7402NRS	SK-079156-01	07/27/05	CC1945		*	*	*	*				

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2150850-76	MH 7504/5NRS	SK-132350-04	06/15/01	CC1946		*	*	*	*				
2150850-80-04	MH 7404/5NRS	SK-132288-08	01/26/04	CC1947		*	*	*	*				
2150850-81-02	MH 7402NRS	SK-132273-06	04/23/03	CC1948		*	*	*	*				
2150850-84-01	MH 7506RS	SK-132352-06	09/10/03	CC1949		*	*	*	*				
2150850-84-02	MH 7506RS	SK-132352-06	09/10/03	CC1950		*	*	*	*				
2150850-85	MHW 7404/5NRS	SK-132674-02	03/05/03	CC1951		*	*	*	*				
2150850-95-03	MH 7709RS	SK-132861-04	02/03/04	CC1952		*	3	1/7	10		-	(2)	
2150850-96-01	MHW 7707NRS	SK-132861-03	09/03/03	CC1953		*	*	*	*				
2150930-03	MHW 7404/5RS	SK-132496-01	06/15/06	CC1956		*	*	*	*				
2150930-03-05	MHW 7404/5RS	SK-132496-03	05/22/03	CC1957		*	*	*	*				
2150930-03-06	MHW 7404/5	SK-132651-04	01/27/04	CC1958		*	*	*	*				
2150930-03-08	MHW 7404/5RS	SK-132496-01	06/15/00	CC1959		*	*	*	*				
2150930-06	MHW 7504RS			CC1960		*	*	*	*				
2150930-06-02	MHW 7504/5NRS	SK-132498-03	03/26/01	CC1961		*	*	*	*				
2150930-06-04	MHW 7504/5RS	SK-132887-01	04/10/02	CC1962		*	*	*	*				
2150930-08-03	MHW 7506RS	SK-132449-03	09/18/03	CC1965		*	*	*	*				
2150930-11	MHW 7706RS	SK-132591-01	10/25/00	CC1969		*	*	*	*				
2150930-11-03	MHW 7706NRS	SK-132591-01	10/25/00	CC1970		*	*	*	*				
2150955-02-01	MH 7304LRS2	SK-133066-01	10/01/04	CC1971		*	*	*	*				
2150955-02-02	MH 7035LRS2	SK-133069-01	11/23/04	CC1972		*	*	*	*				
2150955-02-04	MH 7035LRS2	SK-133066-02	12/09/04	CC1973		*	*	*	*				
2150955-02-07	MH 7035LRS2	SK-133070-01	01/27/05	CC1974		*	*	*	*				
2150955-02-08	MH 7035LRS2	SK-133070-01	01/27/05	CC1975		*	*	*	*				
2150955-02-10	MH 7035LRS2	SK-133070-01	01/27/05	CC1976		*	*	*	*				
2150955-02-11	MH 7035LRS2	SK-133067-02	08/15/05	CC1977		*	*	*	*				
2150955-02-12	MH7035LNRS2	SK-133066-03	07/19/05	CC1978		*	*	*	*				
2150955-02-13	MH 7035L2S2	SK-133070-02	07/19/05	CC1979		*	*	*	*				
2150955-02-15	MH7035LRS2	SK-133072-01	08/24/05	CC1990		*	*	*	*				
2150955-02-28	MH7035LRS2	SK-133070-04	05/02/06	CC1991		*	*	*	*				
2150955-02-29	MH 7035LRS2	SK-133072-02	08/03/06	CC1992		*	*	*	*				
2150955-03-05	MH7035LRS3	SK-133078-01	05/04/04	CC1994		*	*	*	*				
2150955-03-08	MH 7035LRS3	SK-133078-01	05/04/04	CC1995		*	*	*	*				
2150955-03-11	MH 7035LRS3	SK-133079-02	06/06/05	CC1997		*	*	*	*				
2150955-03-13	MH7035LNRS3	SK-133077-02	07/22/05	CC1998		*	*	*	*				
2150955-03-14	MH 7035LRS3	SK-133176-01	07/21/05	CC1999		*	*	*	*				
2150955-03-15	MH7035LRS3	SK-133179-01	08/03/05	CC2000		*	*	*	*				
2150955-03-16	MH7035LRS3	SK-133179-01	08/03/05	CC2001		*	*	*	*				
2150955-03-17	MH7035LRS3	SK-133179-01	08/03/05	CC2001		*	*	*	*				

CAMERON ACTUATORS
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Part Number	Model	Drawing #	Draw. Date	Bates #		531	605	704	986	Bates ECN	Patented Feature		
											L Spr Ret	U Spr Ret	Top Shaft
2150955-04-01	MH7035LNR	SK-133152-01	12/01/04	CC2014		*	*	*	*				
2150955-04-03	MH 7035LRS4	SK-133151-04	12/10/04	CC2016		*	*	*	*				
2150955-04-04	MH7035LRS4	SK-133180-01	08/05/05	CC2017		*	*	*	*				
2150997-22-01	MA 2002	SK-132949-01	05/15/06	CC2035		*	*	*	*				
Ref. (1): According to Cameron the Lower Spring Retainer was removed from all MA-12 Actuators on 5/29/03, all MA-16 Actuators on 7/1/03, all MA-20 Actuators on 7/1/03, all MP-13 Actuators on 6/5/03, and on all MP-17 Actuators on 5/19/03 . Study may be modified when complete revision history available.													
Ref. (2): According to Cameron the Upper Spring Retainer was removed from all Actuators on 1/18/06 . Study may be modified when complete revision history available.													
Ref. (3): MH 17 & MH-18 Top Shaft Pinned on 4/29/05 to prevent shaft rotation. Set-screws on MA proved insufficient to prevent rotation.													